

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

A292,9
So3Wa
C.2

STA/STA



United States
Department of
Agriculture

Soil
Conservation
Service

Salt Lake City
Utah



WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department
of Natural Resources



January 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTIAN, NEAR THE WEST FORK OF HYALITE CREEK, IN MONTANA.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR UTAH

**and
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS**

Issued by

**PETER C. MYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.**

|||||

Released by

**GEORGE D. McMILLAN
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH**

In Cooperation with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES	
DEE C. HANSEN	DANIEL F. LAWRENCE
State Engineer	Director
Division of Water Rights	Division of Water Resources

|||||

Report prepared by Snow Survey Staff

BOB L. WHALEY, Supervisor

**Soil Conservation Service
125 So. State, Fed. Bldg.
P.O. Box 11350
Salt Lake City, Utah 84147**

PROSPECTIVE WATER SUPPLIES

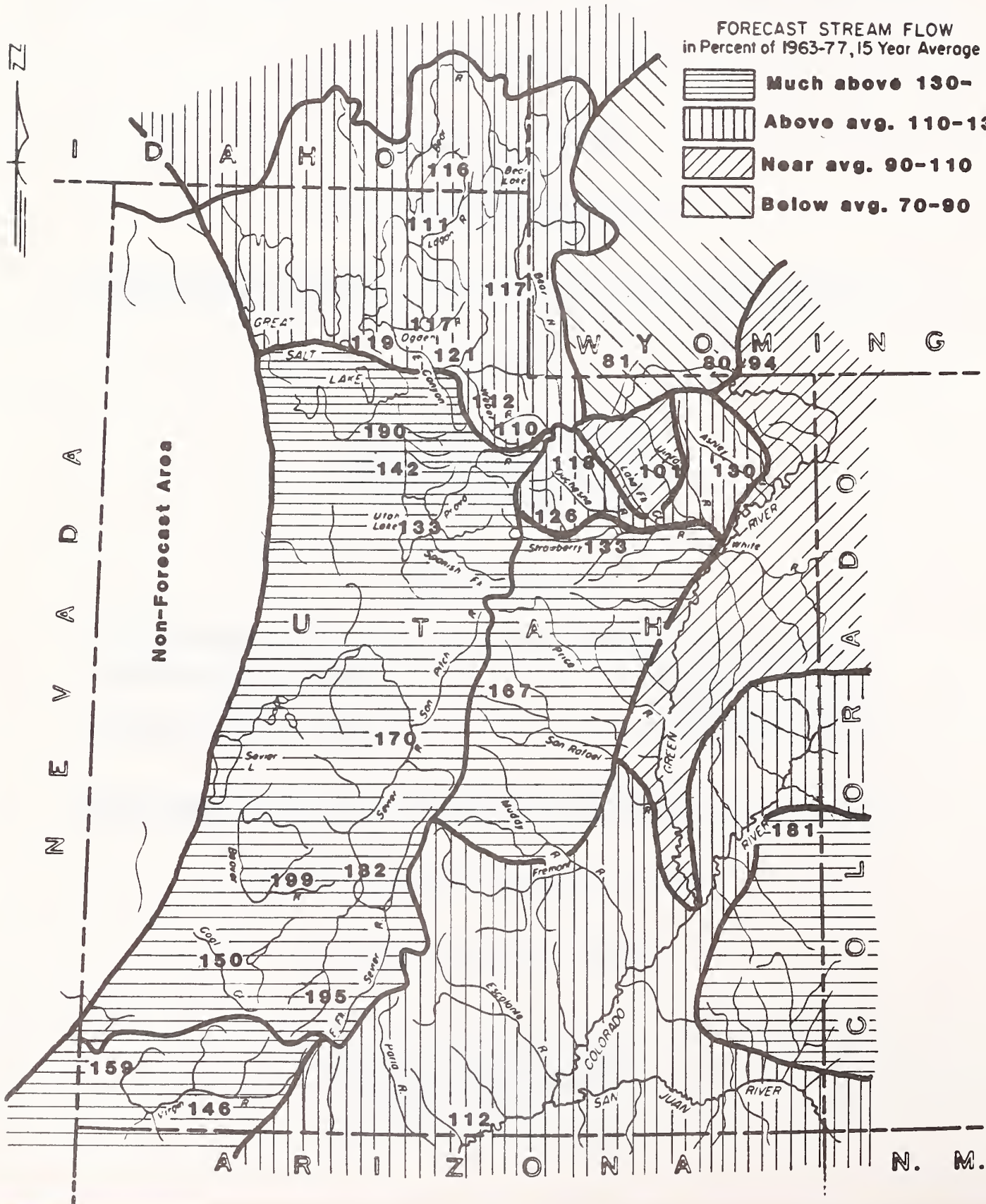
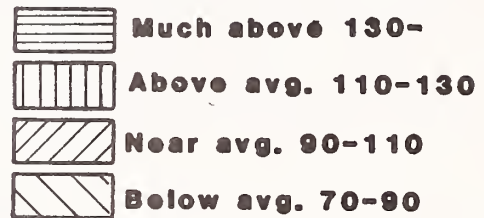
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

January 1, 1983

Approximate Date



FORECAST STREAM FLOW
in Percent of 1963-77, 15 Year Average



As Of January 1, 1983

* * * * *
* Utah's 1983 water supply outlook ranges from near *
* average on the north slope of the Uintahs to two to *
* three times average in southern Utah. Snow cover *
* varies from below average on the Blacks and Henrys *
* Forks to better than twice average on most central and *
* southern Utah watersheds. Soil moisture and reservoir *
* storage is well above average. Streamflow forecasts *
* range from 80% of average on Henrys Fork to 352% for *
* the Inflow to Minersville. *
* * * * *

SNOW COVER

Snow measurements taken the last week of December range from slightly below average on the north slope of the Uintahs to 234% on the La Sal Mountains above Moab. Bear River is 100% on the Upper River and 121% on the Lower Bear. Ogden River is 170% of the January 1 average, the Weber 122%, Provo-Utah Lake 140%, Duchesne River 171%, Price River 133%, San Rafael 200%, Muddy River 153%, Fremont River 177%, Upper Sevier and Beaver 214%, Coal Creek 242% and Virgin River 252%. Many snow courses in central and southern Utah set new water content records for January 1.

PRECIPITATION

Precipitation at mountain stations during the October-December period range from near average in northern Utah to almost twice average in central and southern Utah.

SOIL MOISTURE

Watershed soils were well primed this fall by good rains in September before snow fell on most watersheds. Soils are wetter than average and are expected to produce good runoff when snow melt occurs next spring.

RESERVOIR STORAGE

Storage in 24 of Utah's key irrigation reservoirs is 139% of the 15 year average for January 1 and 90% of useable capacity after exceptional carry over storage last fall. January 1 storage is 34% better than last year at this time.

Utah Lake is 1.52 feet above compromise and 2.50 feet above last January 1. Great Salt Lake is 4201.65 feet above mean sea level and 2.95 feet above last year.

Sevier River storage is now 200% of average and 88% of useable capacity.

STREAMFLOW FORECASTS

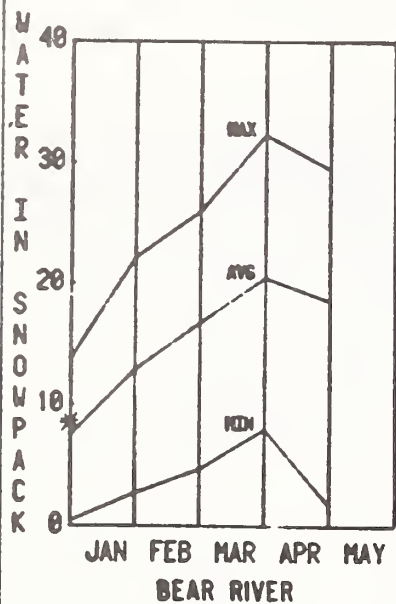
April through July streamflow forecasts range from 80% of average on Henrys Fork to 352% for the Inflow to Minersville Reservoir. Bear, Ogden, Weber, Upper Duchesne, Currant Creek, Rock Creek, Ashley Creek and main stem Colorado River range from 110 to 130% of the April-July average. Green River forecasts range from 94% of average at Flaming Gorge to 108% at Green River. Central and southwestern Utah streams range from 130 to better than 200% of the April-July average. These forecasts assume average precipitation and temperatures for the remainder of the accumulation and melt season.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

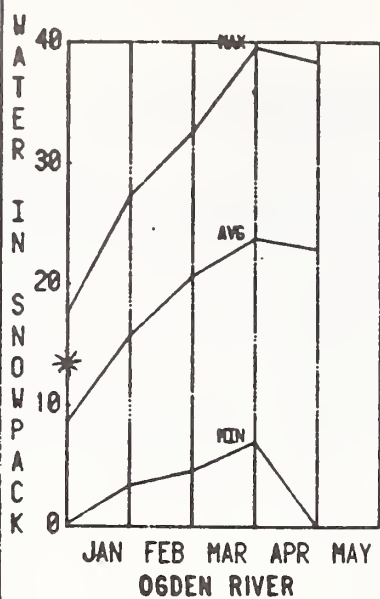
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1176.8	882.5	1035.4
	Woodruff Narrows	55.7	34.2	19.4	18.1
	Birch Creek	2.2			
	Woodruff Creek	4.0		0.5	
<u>Beaver River</u>	Minersville (RkyFd)	23.3	19.5	14.2	10.0
<u>Little Bear</u>	Hyrum	15.3	10.2	10.2	10.4
	Porcupine	11.3	3.9	2.4	2.7
<u>Ogden</u>	Causey	6.9	2.8	3.0	1.8 ^b
	Pineview	110.1	89.6	56.2	52.1
<u>Provo</u>	Deer Creek	149.7	113.1	103.1	107.3
<u>Settlement Creek</u>	Settlement Creek	1.2	1.0	0.5	
	Vernon Creek	0.6	0.5		
<u>Sevier River</u>	Gunnison	18.2	17.0	10.0	9.7
	Otter Creek	52.5	47.2	36.0	26.0
	Piute	71.8	59.1	48.6	32.2
	Sevier Bridge	236.0	211.1	160.6	99.0
	Panguitch Lake	22.3			
<u>Spanish Fork</u>	Strawberry	270.0	244.6	169.9	147.8
<u>Utah Lake</u>	Utah Lake	883.9	1045.8	750.7	639.3
<u>Weber</u>	East Canyon	48.1	41.0	32.0	26.6
	Echo	73.9	45.8	44.8	44.4
	Lost Creek	20.0	15.6	12.0	12.6 ^b
	Rockport	60.9	57.1	37.5	37.9
	Willard Bay	193.3	122.6	132.2	121.6 ^b
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	31.8	24.4	19.0
	Red Fleet	25.7			
<u>Colorado</u>	Blue Mesa	829.5	608.6	340.0	
	Lake Powell	25002.0	22545.0	20120.0	
<u>Green</u>	Flaming Gorge	3749.0	3309.0	2783.0	
<u>Lakefork</u>	Moon Lake	35.8	28.9	14.6	15.0
<u>Price River</u>	Scotfield	65.8	54.0	32.5	33.7
<u>San Juan</u>	Navajo	1696.0	1474.0	1235.0	
	Ken's Lake	2.7	0.7		
<u>San Rafael</u>	Huntington North	3.9	4.0	1.6	1.7
	Joe's Valley	54.6	54.1	32.0	35.1 ^b
	Mill Site	16.7	12.0	5.2	
<u>Strawberry</u>	Starvation	165.3	156.3	146.4	
<u>Uintah</u>	Bottle Hollow	11.3		11.1	9.8 ^b

b=less than 15 years.

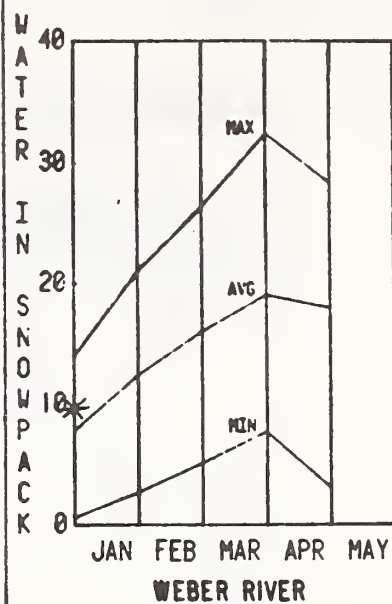
BASIN SNOWPACK



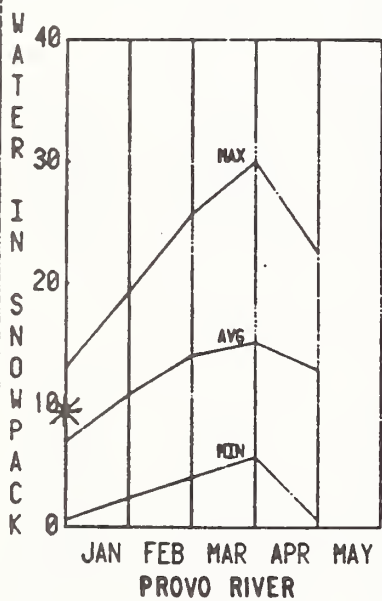
BASIN SNOWPACK



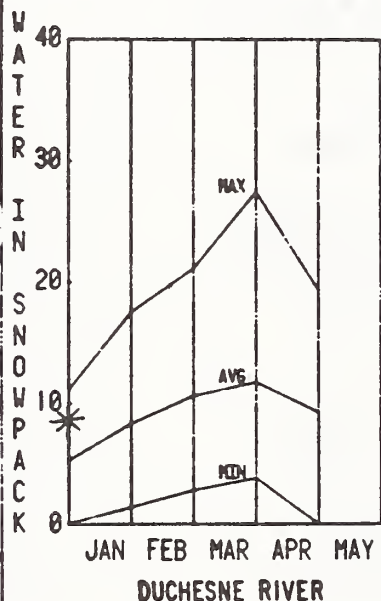
BASIN SNOWPACK



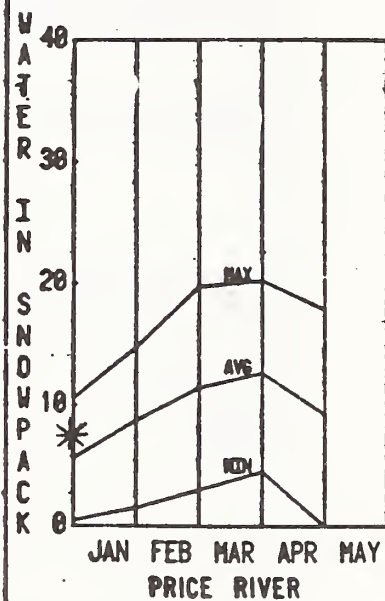
BASIN SNOWPACK



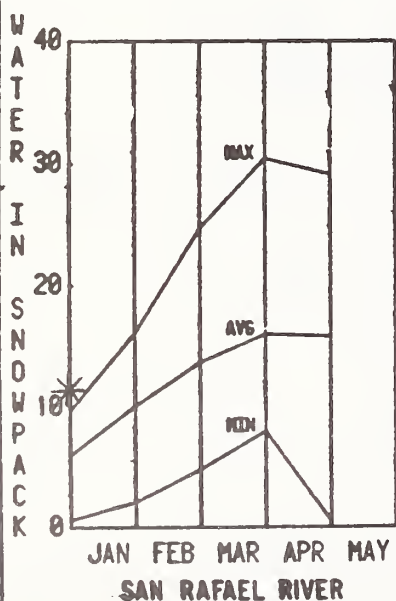
BASIN SNOWPACK



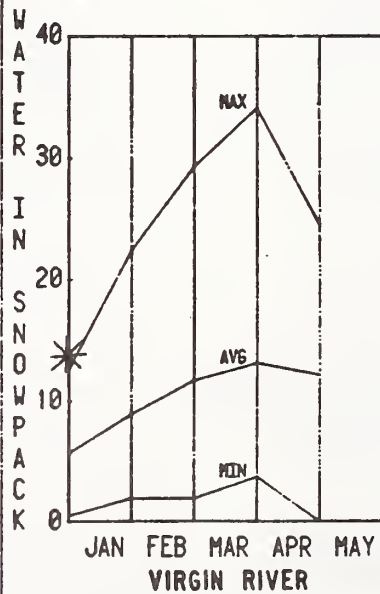
BASIN SNOWPACK



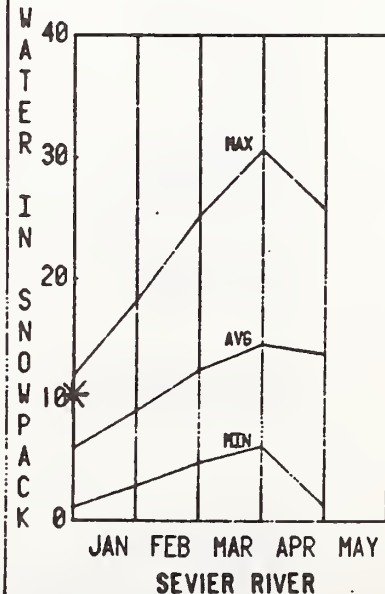
BASIN SNOWPACK



BASIN SNOWPACK

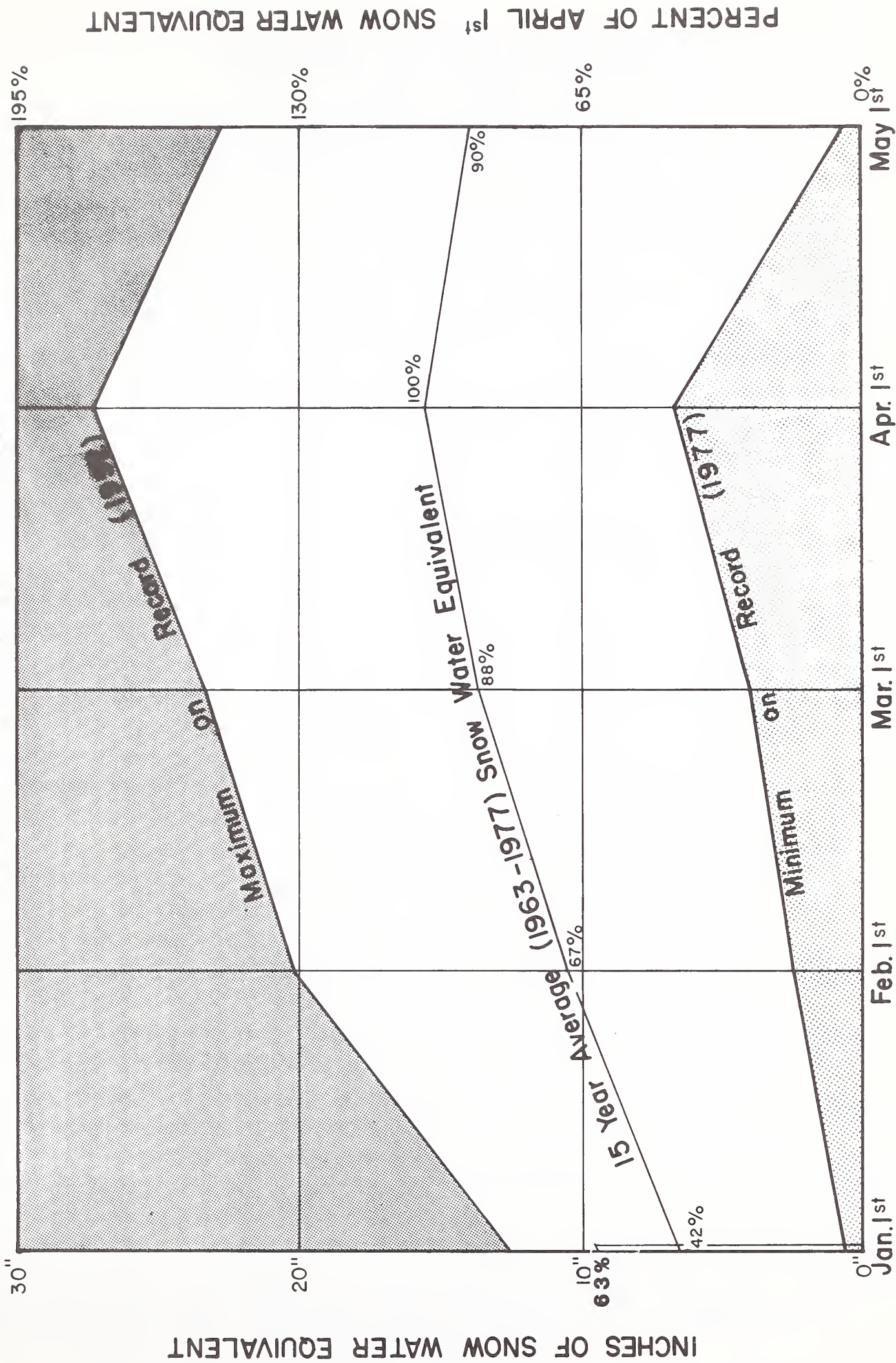


BASIN SNOWPACK



UTAH'S WINTER SNOWPACK

Data based on 79 selected snow courses



PERCENT OF APRIL 1st SNOW WATER EQUIVALENT

INCHES OF SNOW WATER EQUIVALENT

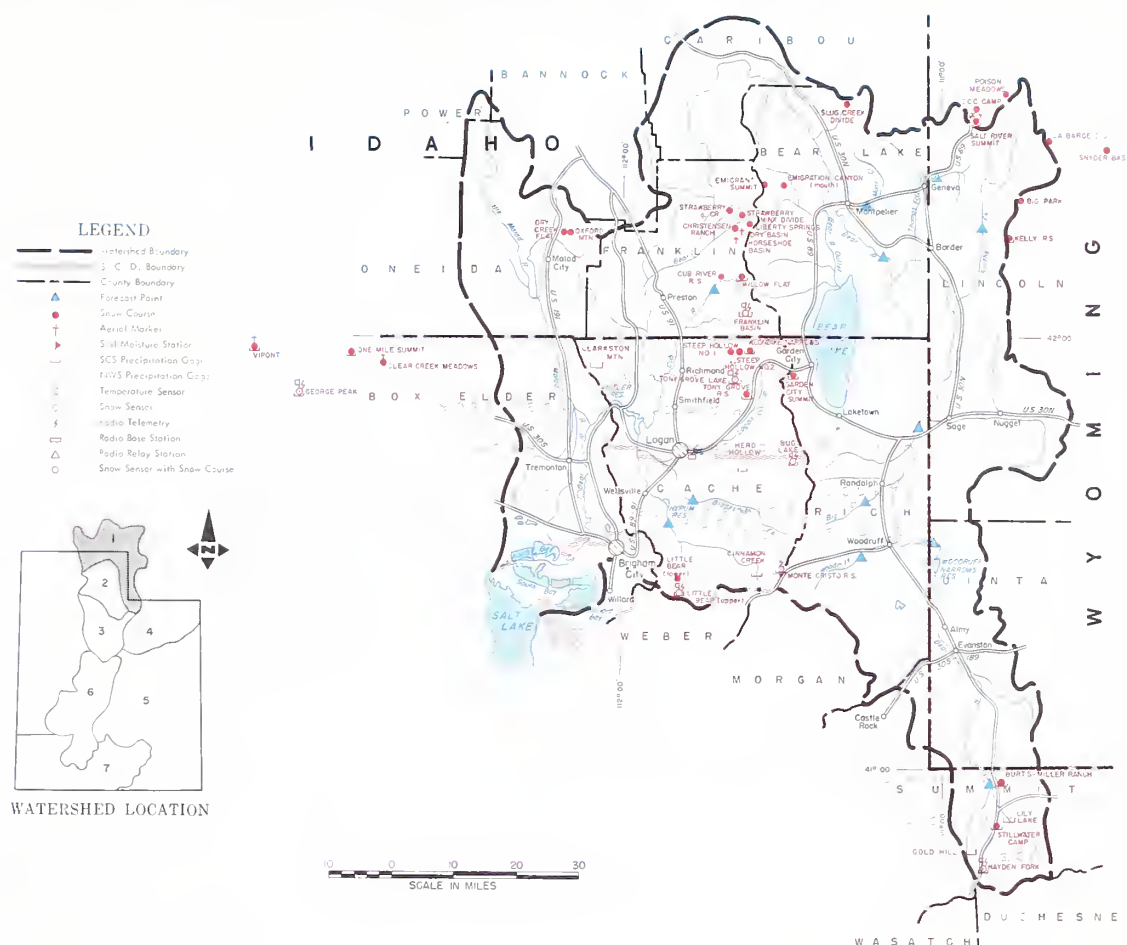


1983 Snowpack

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1983

THE 1983 WATER SUPPLY OUTLOOK IS NEAR TO ABOVE AVERAGE

SNOW COVER ranges from about average on the Upper Bear to 21% above average on the Lower Bear and Logan Rivers.

PRECIPITATION at mountain stations for the October-December period has been average to 15% above average.

SOIL MOISTURE on most watersheds is above average as a result of above average August and September precipitation.

RESERVOIR STORAGE is generally above average with Bear Lake at 114% of average 133% of last year on January 1.

STREAMFLOW FORECASTS range from average for the Bear at Harer, Idaho to 125% for Big Creek near Randolph. The Bear at State Line and Woodruff are forecast 117%, Woodruff Creek 101%, Bear at Randolph 114%, Thomas Fork 114%, and Smiths Fork 104%. Cub River is forecast 116%, Logan River 111%, Blacksmith Fork 114%, and Little Bear 106% of the 15 year average.

BEAR RIVER BASIN IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
BEAR RIVER					
Bear nr UT-Wyo. State Line	133	117	Apr-July	142	114
Bear nr Woodruff	173	117	Apr-July	180	148
Woodruff Crk nr Woodruff, UT	18.6	101	Apr-July	--	18.4b
Big Creek nr Randolph, UT	6.8	125	Apr-July	--	5.4b
Bear nr Randolph	137	114	Apr-July	145	120
Thomas Fork nr ID-WY State Ln	40	114	Apr-Sept	--	35
Smith's Fork nr Border, WY	125	104	Apr-Sept	--	120
Bear at Harer, Idaho 1/	332	100	Apr-Sept	--	332
Logan nr Logan 1/	132	111	May-July	175	118
Blacksmith Fork nr Hyrum	61	114	Apr-July	83	54
Little Bear nr Paradise	40	106	Apr-June	65	38
Cub River nr Preston, ID	58	116	Apr-Sept	--	--

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	16	65	119
UPPER BEAR RIVER	2	54	100
LOWER BEAR RIVER	14	69	121
LOGAN RIVER	7	64	121
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
BEAR RIVER	Bear Lake	1421.0	1176.8	882.5	1035.4
	Woodruff Narrows	57.3	34.2	19.4	18.1
LITTLE BEAR	Hyrum	15.3	10.2	10.2	10.4
	Porcupine	11.3	3.9	2.4	2.7

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Creek nr Randolph	To begin February 1st	
Logan River nr Logan		
Woodruff Creek nr Woodruff		
Little Bear nr Paradise		
Bear nr. Ut.-Wyo. Stateline		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Burts-Miller Ranch	12/29	14	1.7	--	--
Cub River R.S.	12/27	19	5.0	--	3.4a
Emigrant Summit	1/3	45	13.5	12.8	9.4b
Franklin Basin	12/27	39	10.7	18.5	9.9a
Hayden Fork	12/29	23	5.0	11.3a	6.4a
Klondike Narrows	12/27	34	8.2	--	7.1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Little Bear Lower	12/28	28	6.2	--	4.8a
Little Bear Upper	12/28	37	7.0	--	5.8a
Monte Cristo	12/28	41	11.0	18.2	9.6a
Salt River Summit	12/29	32	6.4	9.8	5.9
Stillwater Camp	12/29	21	3.5	--	--
Tony Grove R.S.	12/27	25	5.7	--	4.1

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 841138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE
AGR-101



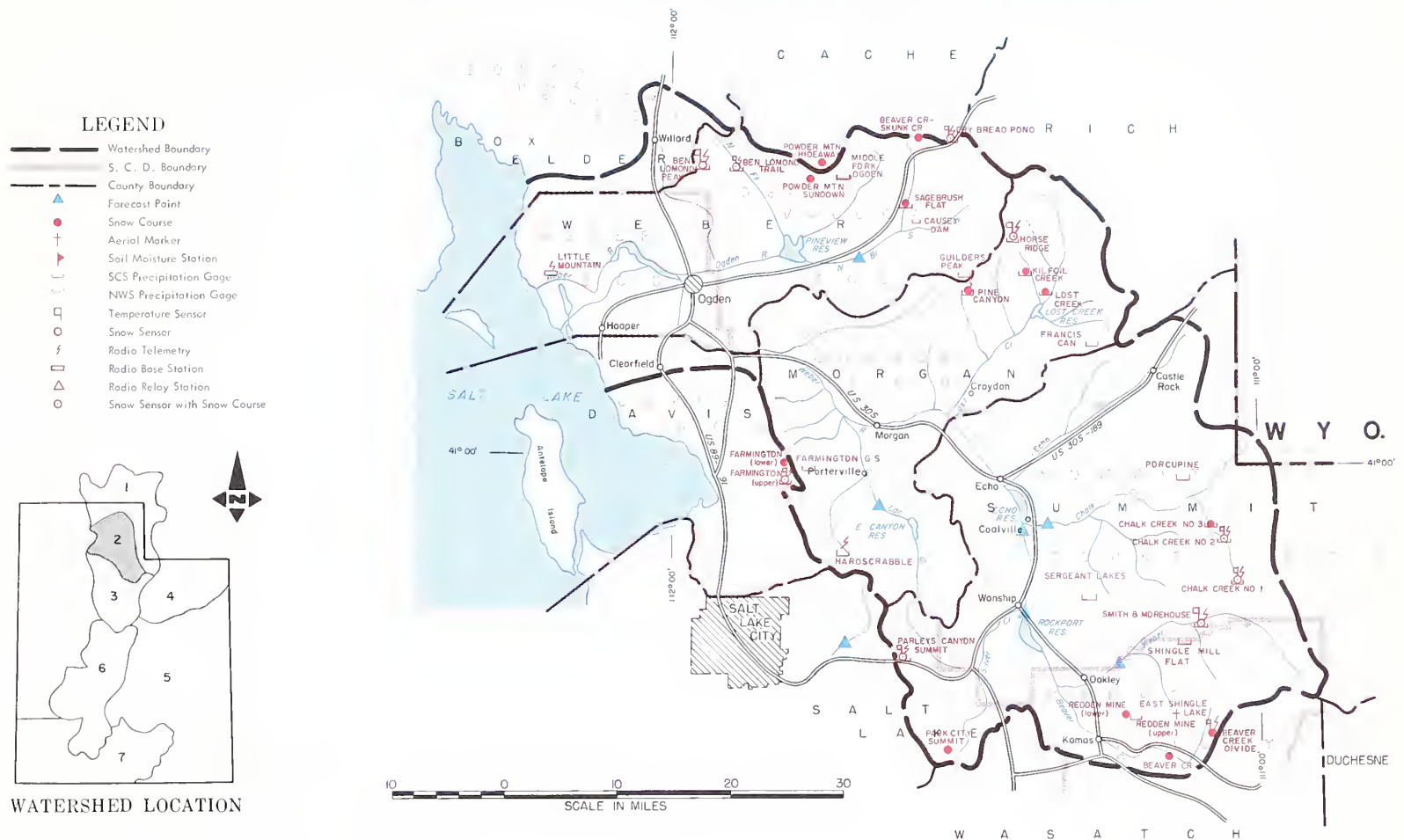
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1983

THE 1983 WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is 170% of average on the Ogden Watershed and 122% on the Weber. Both basins have slightly less snow water than last year at this time.

PRECIPITATION at mountain stations for the October-December period has been average to 10-13% above average.

SOIL MOISTURE is above average as a result of better than average August and September precipitation priming the soils prior to late September snow.

RESERVOIR STORAGE is above average in all reservoirs except Willard Bay which was drawn down for repair. Most reservoirs had very good carry over storage this fall.

STREAMFLOW FORECASTS range from 110% of the April-June average for the Weber at Oakley to 130% for East Canyon Creek. Rockport Inflow is forecast 113%, Chalk Creek 121%, Echo Reservoir Inflow 114%, Lost Creek 121%, Hardscrabble 125%, and Weber at Gateway 119%. Pineview Inflow is forecast 127% of the April-June average and Farmington Creek 122%.

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	115	110	Apr-June	133	104
Rockport Reservoir Inflow 1/	127	113	Apr-June	172	112
Chalk Creek at Coalville	48	121	Apr-June	61	40
Weber nr Coalville	138	112	Apr-June	175	123
Lost Creek nr Croydon, UT	21	121	Apr-June	24	17.4b
East Canyon Creek nr Morgan 1/	33	130	Apr-June	44	26
Hardscrabble Crk nr Porterville	23	125	Apr-June	--	18.6e
South Fork Ogden nr Huntsville	67	117	Apr-June	92	57
Pineview Reservoir Inflow 2/	145	127	Apr-June	168	115
Echo Reservoir Inflow	183	114	Apr-June	215	160
Weber at Gateway	370	119	Apr-June	396	310
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	9.9	122	Apr-July	--	8.1b

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	5	98	170
WEBER RIVER	9	89	122

1 - Observed flow corrected for change in storage and diversions
2 - Inflow record as computed by U. S. Bureau of Reclamation
3 - Provisional flows - Subject to Correction
a - Partly estimated
b - Average of all past record - less than 15 years
e - Maximum mean daily peak flow
+ - 1963-77 15 year Average Period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	2.8	3.0	1.8b
	Pineview	110.1	89.6	56.2	52.1
WEBER	East Canyon	48.1	41.0	32.0	26.0
	Echo	73.9	45.8	44.8	44.4
	Lost Creek	20.0	15.6	12.0	12.6b
	Rockport	60.9	57.1	37.5	37.9
	Willard Bay	193.3	112.6	132.2	121.6b

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Lost Creek nr Croydon	Beginning Feb.	1, 1983
South Fork Ogden nr Huntsville		
Chalk Creek nr Coalville		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Beaver Creek R.S.	12/29	19	3.9	--	3.6
Beaver Creek-Skunk Creek	12/28	27	6.5	--	4.4
Ben Lomond Peak	12/28	71	21.8	20.5	12.4
Ben Lomond Trail	12/28	42	12.2	12.1	5.4a
Chalk Creek #1	12/29	44	11.0	--	9.3a
Chalk Creek #2	12/29	34	7.0	8.9	6.6a
Chalk Creek #3	12/29	20	3.6	--	3.6a
Dry Bread Pond	12/28	34	9.1	11.3	6.9a

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Horse Ridge	12/28	37	9.7	--	7.9a
Lost Creek Reservoir	12/28	12	2.6	--	--
Monte Cristo	12/28	41	11.0	18.2	9.6a
Parleys Canyon Summit	12/28	40	8.7	10.7	7.9
Sagebrush Flat	12/28	15	3.1	--	1.9
Smith & Morehouse	12/29	27	7.0	6.9	5.2
Trial Lake	12/29	40	10.8	16.0	10.3

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE
AGR-101



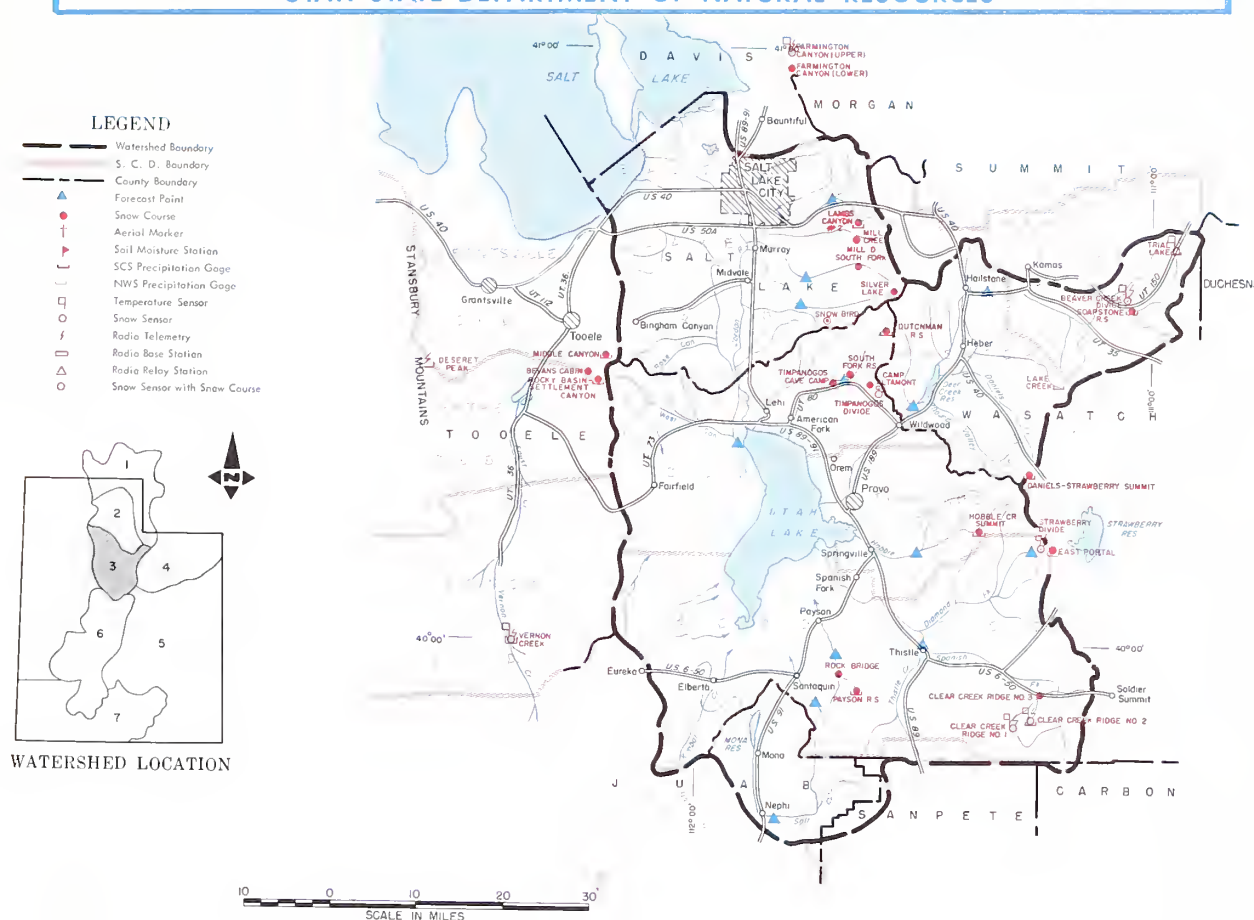
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER on the Jordan River above Salt Lake is 142% of the January 1 average and the Provo River-Utah Lake drainage is 140% of average.

PRECIPITATION at mountain stations ranged from 121% of average at Trial Lake to 140% at Clear Creek Ridge #2 for the October-December period.

SOIL MOISTURE is above average due to the heavy September rains prior to snow accumulation.

RESERVOIR STORAGE is above average. Utah Lake was 1.52 feet above compromise as of January 1.

STREAMFLOW FORECASTS range from 133% of the April-July average for Utah Lake Inflow to 200% of the January-June average for Vernon Creek near Vernon with the Provo near Hailstone at 137%, American Fork near American Fork at 145%, Big Cottonwood near Salt Lake City at 161%, and Mill Creek near Salt Lake City at 190% of the April-July average.

UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	THOUSAND ACRE FEET	PERCENT OF AVERAGE		THOUSAND ACRE FEET	PERCENT OF AVERAGE
PROVO RIVER AND UTAH LAKE					
Provo nr Hallstone 1/	140	137	Apr-July	153	102
Provo below Deer Creek Dam 1/	175	146	Apr-July	--	120
American Fork nr American Fork	45	145	Apr-July	--	31
Hobble Creek nr Springville	28	142	Apr-July	--	--
Strawberry Reservoir Inflow 1/	70	134	Apr-July	95	52
Spanish Fork at Thistle	55	141	Apr-July	--	--
Payson Creek nr Payson	8.5	135	Apr-July	--	--
Utah Lake Inflow	325	133	Apr-July	--	244
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	54	142	Apr-July	--	38
Big Cottonwood nr SLC	61	161	Apr-July	--	38
Parley's Creek nr SLC	27	175	Apr-July	--	15.4
Mill Creek nr SLC	12.0	190	Apr-July	--	6.3
Emigration Creek nr SLC	7.5	188	Apr-July	--	--
City Creek nr SLC	15.0	188	Apr-July	--	--
TOOELE VALLEY					
Vernon Creek nr Vernon	2.2	200	Jan-June	1.8	1.1
Settlement Crk nr Tooele	3.9	170	Apr-July	--	2.3
S. Willow Crk nr Grantsville	3.9	134	Apr-July	4.2	2.9

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	13	132	140
JORDAN RIVER & SALT LAKE	6	112	142
TOOELE VALLEY	--	--	--

1 - Observed flow corrected for change in storage and diversions
a - Partly estimated
b - Average of past record - less than 15 years
+ - 1963-77 15 year average period
e - Maximum daily peak flow

RESERVOIR STORAGE (Thousand Acre Foot)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SPANISH FORK	Strawberry	270.0	244.6	169.9	147.8
UTAH LAKE	Utah Lake	883.9	1045.8	750.7	639.3
	Settlement Cree	1.2	1.0	0.5	--
	Vernon Creek	0.6	0.5	--	--
PROVO	Deer Creek	149.7	113.1	103.1	107.3

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
American Fork		
Provo nr Hallstone		
Spanish Fork nr Thistle		
Big Cottonwood nr Salt Lake City		
Little Cottonwood nr Salt Lake City		
Mill Creek nr Salt Lake City		
Parley's Creek nr Salt Lake City		
Emigration Creek nr Salt Lake City		
City Creek nr Salt Lake City		
Stone Creek nr Bountiful		
Mill Creek nr Bountiful		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Bevans Cabin	12/29	42	12.9	3.9	6.5
Camp Altamont	12/27	37	8.5	10.3	7.2 ^a
Clear Creek #1	12/27	34	6.8	9.3	5.8 ^a
Clear Creek #2	12/27	21	4.1	--	3.1 ^a
Clear Creek #3	12/27	34	9.8	9.2	5.6
Daniels-Strawberry Summit	12/27	47	13.7	6.2	7.2 ^a
Dutchman R.S.	12/29	35	8.1	--	5.8 ^a
Hobble Creek Summit	12/27	39	8.9	8.7	7.8 ^a
Lambs Canyon #2	12/28	38	9.5 ^a	5.5	6.1 ^a
Middle Canyon	12/31	40	9.4	11.1	8.1 ^a
Mill Creek	12/29				

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST RECORD	
		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
Mill D South Fork	12/29	44	11.5	11.9	8.2
Parley's Canyon Summit	12/28	40	8.7	10.7	7.9
Payson R.S.	12/31	42	12.4	9.0	8.0
Rocky Basin-Settlement Canyon	1/1	92 ^a	23.0 ^a	--	--
Silver Lake Brighton	12/29	53	14.8	15.4	10.3
Soapstone R.S.	12/29	22	4.0	--	5.3
South Fork R.S.	12/28	24	7.8	4.0	2.6
Timpanogos Divide	12/29	55	16.0	5.4	10.8
Trial Lake	12/29	40	10.8	16.0	10.3
Vernon Creek	12/31	35	8.8 ^a	3.6	3.7 ^b

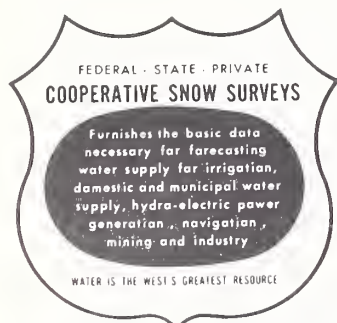
UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101



FIRST CLASS MAIL



"The Conservation of Water begins with the Snow Survey"

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



STREAMFLOW FORECASTS range from 80% of average on Henrys Fork to 133% on Strawberry River for the April-July period. Other streams are forecast as follows: Duchesne at Tabiona 126%, at Duchesne 122%, at Myton 131%, at Randlett 124%, and West Fork Duchesne 129% of the April-July average. Currant Creek is forecast 129%, Rock Creek 118%, Lakefork 108%, Yellowstone 112%, Uintah 106%, Whiterocks 112% and Ashley Creek 130%.

UINTAH BASIN AND DAGGETT SCD's IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	135	126	Apr-July	170	107
Duchesne at Duchesne 1/	236	122	Apr-July	264	193
Strawberry at Duchesne	76	133	Apr-July	91	57
Rock Creek nr Mtn. Home	112	118	Apr-July	112	95
Currant Creek nr Fruitland	26	129	Apr-July	32	20
Lakefork below Moon Lake 1/	77	108	Apr-July	79	72
Yellowstone nr Altonah	74	112	Apr-July	74	67
Duchesne at Myton 1/	275	131	Apr-July	275	210
Whiterocks nr Whiterock	67	112	Apr-July	62	60
Uintah nr Neola	94	106	Apr-July	90	89
Duchesne at Randlett 1/	329	124	Apr-July	336	266
West Fork Duchesne at Hanna	34	129	Apr-July	--	26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	43	80	Apr-Sept	38	54
Black's Fork at Millburne	76	81	Apr-July	95	93
Flaming Gorge Inflow 1/	1220	94	Apr-July	--	1292
Ashley Creek nr Vernal	66	130	Apr-July	50	51

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
DUCHESNE RIVER - TOTAL	12	147	171
LAKEFORK-YELLOWSTONE CREEKS	4	130	165
STRAWBERRY RIVER	4	65	149
UINTAH - WHITEROCKS RIVERS	2	141	222
ASHLEY CREEK	2	101	147
BLACK'S FORK - HENRYS FORK	4	68	98
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
ASHLEY CREEK	Steinaker	33.3	31.8	24.4	19.0
GREEN RIVER	Flaming Gorge	3749.0	3309.0	2783.0	--
LAKE FORK	Moon Lake	35.8	28.9	14.6	15.0
STRAWBERRY	Starvation	165.3	156.3	146.4	--
UINTAH	Bottle Hollow	11.3	--	--	--

PEAK FLOWS e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Strawberry at Duchesne Ashley Creek nr Vernal	To begin February 1st	

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Brown Duck Ridge	12/30	50	14.3	12.2	7.5a
Currant Creek	12/27	27	6.5	4.6	4.0a
Daniels-Strawberry	12/27	34	9.8	9.2	5.6
Hewinta G. S.	12/29	18	2.9	--	3.4b
Hickerson Park	12/30	24	2.7	--	1.9b
Jackson Park	12/30	42	11.4	--	7.7a
Kings Cabin Upper	12/30	35	8.9	5.0	5.0a

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Lakefork Mountain	12/30	35	8.5	5.4	5.8a
Mosby Mountain	12/30	33	8.9	6.3	4.2
Paradise Park	12/30	43	12.4	--	5.4
Rock Creek Ranch	12/30	26	5.9	4.5	3.2a
Spirit Lake	12/30	33	5.4	--	4.9a
Steel Creek Park	12/29	36	7.7	11.4	6.3a
Strawberry Divide	12/30	39	9.5	10.4	7.8
Trout Creek	12/30	37	10.2	--	--

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Federal Bldg. - Room 4012
Salt Lake City, Utah 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101



FIRST CLASS MAIL

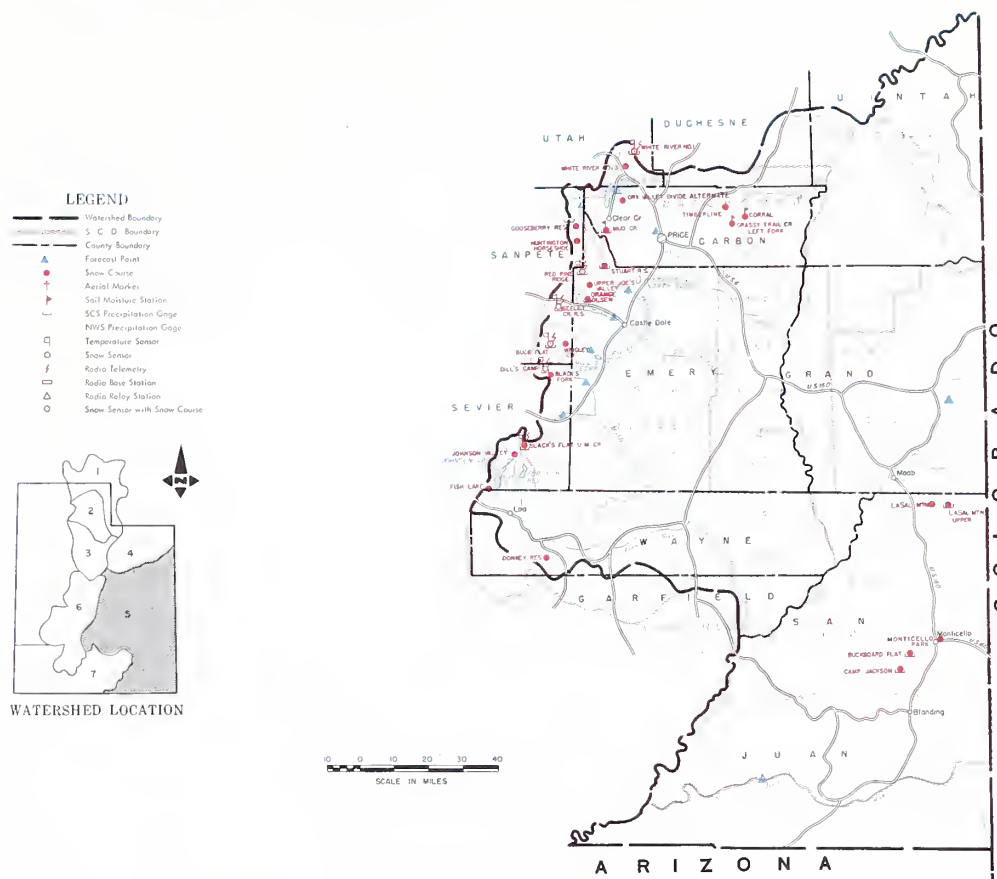


"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE 1983 WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 133% of the January 1 average on Price River Watershed to 234% on the La Sal Mountains. Muddy River is 153%, Fremont River 177%, San Rafael 200% and Blue Mountains above Monticello 218% of average. New January 1 water content records were set at all San Rafael snow courses and three of the four snow courses on the La Sal and Blue Mountains. The biggest increase in January 1 record was at Huntington Horseshoe which increased from 11.6 to 16.8 inches of water.

PRECIPITATION at mountain stations ranged from about 130 to better than twice average for the October-December period.

SOIL MOISTURE is above average after very good precipitation in August, September and early October.

RESERVOIR STORAGE is well above average

STREAMFLOW FORECASTS for the April-July period range from 108% of average at Green River to 181% for Mill Creek near Moab. Scofield Inflow is forecast 149%, Price River 125%, Huntington Creek 136%, Cottonwood Creek 167%, Muddy Creek 163%, Ferron Creek 180%, and Seven Mile Creek 118% of average. The Colorado River is forecast 113% at Cisco and the San Juan 118%.

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast	Percent of Average		THOUSAND ACRE FEET	
	Thousand Acre Feet			Last Year	Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	14.5	144	Apr-July	--	10.1
Scofield Reservoir Inflow	53	149	Apr-July	--	36
Price nr Heiner 1/	80	125	Apr-July	--	--
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	63	136	Apr-July	--	49 ^b
Cottonwood Crk nr Orangeville	74	167	Apr-July	65	44 ^b
Ferron Creek nr Ferron	61	180	Apr-July	49	34
MUDDY CREEK					
Muddy Creek nr Emery	28	163	Apr-July	27	16.9
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	3075.0	113	Apr-July	--	2716
Green at Green River, UT	3210.0	108	Apr-July	--	2974
Mill Creek nr Moab	9.2	181	Apr-July	4.2	5.1 ^b
Navajo Reservoir Inflow	720	118	Apr-July	--	608
San Juan nr Bluff, UT	1025.0	118	Apr-July	--	865
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	7.5	118	Apr-July	7.2	6.4

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	54.0	32.5	33.7
SAN RAFAEL	Huntington North	3.9	4.0	1.6	1.7
	Joe's Valley	54.6	54.1	32.0	35.1 ^b
	Mill Site	16.7	12.0	5.2	--
SAN JUAN	Navajo	1696.0	1474.0	1235.0	--
	Kens Lake	2.7	0.7	--	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Buck Flat	12/29	42	12.1	6.3	6.1 ^a
Buckboard Flat	12/29	37	10.4	1.9	5.4 ^a
Camp Jackson	12/29	41	12.5	2.0	5.1 ^a
Dills Camp	12/29	29	7.0	7.3	4.6 ^a
Dry Valley Divide Alternate	12/27	28	6.2	--	4.5 ^a
Huntington-Horseshoe	12/28	54	16.8	--	8.8 ^a

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PRICE RIVER	4	--	133
SAN RAFAEL RIVER	8	127	200
FREMONT RIVER	3	89	177
LASAL MOUNTAINS	2	284	234
BLUE MOUNTAINS	2	581	218
MUDDY RIVER	2	96	153
1 - Observed flow corrected for change in storage and diversions			
2 - Inflow record as computed by U. S. Bureau of Reclamation			
3 - Provisional flows - Subject to Correction			
a - Partly estimated			
b - Average of all past record - less than 15 years			
e - Maximum mean daily peak flow			
+ - 1963-77 15 year Average Period			

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	To Begin February 1	
Muddy Creek near Emery		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Mammoth-Cottonwood R.S.	12/28	51	13.7	10.6	7.9
Monticello City Park	1/3	6	2.3	--	--
Mud Creek	12/28	32	6.9	--	5.7
Seeley Creek	12/28	36	11.0	8.9	6.2
White River #1	12/27	32	8.0	--	5.4 ^a
White River #3	12/27	22	4.1	--	3.4 ^a

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE
AGR-101



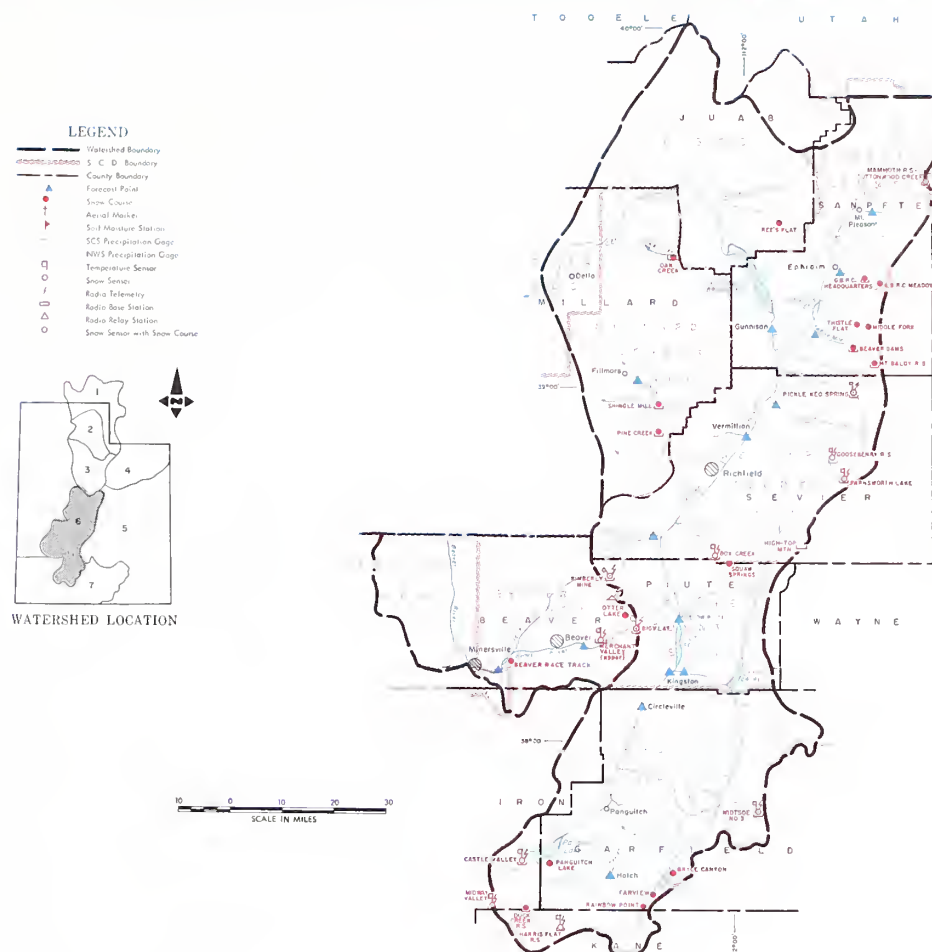
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1983

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER ranges from 164% of the January 1 average on the Lower Sevier to 228% on the South Fork Sevier. The East Fork is 188% and the Beaver River 214%. Most snow courses in this area exceeded the previous record water content for January 1 and Pine Creek exceeded its previous high by 5.5 inches of snow water content.

PRECIPITATION at mountain stations for the October-December period ranged from near average at some stations on the San Pitch to better than twice average at Duck Creek R. S.

SOIL MOISTURE is above average due to better than average fall precipitation.

RESERVOIR STORAGE is well above average and about 91% of useable capacity.

STREAMFLOW FORECASTS range from 129% of the April-July average for Oak Creek to 352% for Minersville Inflow. The Sevier is forecast 195% at Hatch, 190% at Circleville, 186% at Kingston, 178% for the East Fork, and 170% at Gunnison. Salina Creek is forecast 141%, Clear Creek 169%, Chicken Creek 161%, Ephriam Creek 166%, Pleasant Creek 149% and Salt Creek 152% of average.

Beaver River is forecast 199% and North Creeks 185% of the April-July average.

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
SEVIER RIVER					
Sevier at Hatch	80	195	Apr-July	--	41
Sevier nr Circleville	55	190	Apr-July	--	29
Sevier nr Kingston	42	186	Apr-July	--	23
Antimony Crk nr Antimony	12.2	177	Apr-July	--	6.9
East Fork Sevier nr Kingston1/	27	178	Apr-July	--	15.2
Sevier below Piute Dam	65	182	Apr-July	--	36
Clear Crk nr Sevier (abv Div)	30	169	Apr-July	--	17.8
Sigurd to Gunnison	47	181	Apr-July	--	--
Kingston to Vermillion Dam	100	179	Apr-June	--	56
Vermillion Dam to Gunnison	65	186	Mar-June	--	35
Salina Creek at Salina	55	141	Apr-June	--	11.1
Sevier nr Gunnison	85	170	Apr-July	--	50
Chalk Creek nr Fillmore	29	175	Apr-July	--	16.3
Chicken Creek nr Levan	5.0	161	Apr-July	6.0	3.1
Oak Cr. nr Oak City	1.8	129	Apr-July	1.9	1.4
Ephraim Creek nr Ephraim	24	166	Apr-July	--	14.5
Pleasant Crk nr Mt. Pleasant	12.5	149	Apr-July	--	8.4
Salt Creek nr. Nephi	18.6	152	Apr-July	--	12.2
Beaver nr Beaver	40	199	Apr-July	31	20
North Creek (Combined)	25	185	Apr-July	--	13.7b
Minersville Inflow	23	352	Apr-June	--	6.6
RESERVOIR STORAGE (Thousand Acre Feet)					

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER			
East Fork Sevier	4	145	188
South Fork Sevier	7	355	228
LOWER SEVIER	10	112	164
BEAVER RIVER	3	142	214
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

PEAK FLOWS^e

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE			FORECAST POINT	PEAK FLOW (SECOND FEET)	
			This Year	Last Year	Average †		Forecast Range	Average †
SEVIER RIVER	Gunnison	18.2	17.0	10.0	9.7	Sevier River at Hatch	To Begin February 1st	
	Otter Creek	52.5	47.2	36.0	26.0	Beaver River nr Beaver		
	Piute	71.8	59.1	48.6	32.2	Sevier River nr Kingston		
	Sevier Bridge	236.0	211.1	160.6	99.0	Clear Creek nr Sevier		
						Salina Creek nr Salina		
BEAVER RIVER	Minersville (Rky Fd)	23.3	19.5	14.2	10.0	Beaver River nr Beaver		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Big Flat	12/31	46	13.0	9.6	5.9 ^a
Bryce Canyon	12/30	23	5.1	2.6	2.1
Castle Valley	12/30	40	11.4	4.7	6.0 ^a
Duck Creek	12/30	43	12.1	4.3	5.2
Farnsworth Lake	12/29	44	10.1	10.2	8.0
Gooseberry R.S.	12/29	30	6.0	5.6	5.3

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Harris Flat	12/30	29	8.0	2.3	3.0
Kimberly Mine	12/31	38	9.8	5.1	6.2
Long Valley Junction	12/30	28	8.1	1.3	1.5
Merchants Valley Upper	12/31	39	9.8	6.5	4.8 ^a
Midway Valley	12/30	64	20.4	--	8.5
Otter Lake	12/31	36	9.7	--	4.5 ^a
Pickle Keg Springs	12/29	37	8.6	8.0	6.4 ^a
Widtsoe-Escalante #3	12/29	31	7.3	5.1	4.5

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101



FIRST CLASS MAIL



"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



JANUARY 1, 1983

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is well above average and ranges from 176% of the January 1 average on Parowan Creek to 338% on Enterprise-New Harmony drainages. Coal Creek is 242% of average and Virgin River 252%. Several snow courses in this area set new water content records for January 1st - the previous high was January 1, 1979.

PRECIPITATION at mountain stations ranged from 132% of the October-December average at Tall Poles on Parowan Creek to 163% for Webster Flat.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 112% of average for Lake Powell Inflow to 159% for the Santa Clara for the April-July period. The Virgin River is forecast 146% and Coal Creek 150% of average.

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
VIRGIN RIVER					
Virgin nr Hurricane	71	146	Apr-June	52	48.5
Santa Clara nr Pine Valley	6.5	159	Apr-June	--	4.1
COAL CREEK					
Coal Creek nr Cedar City	25	150	Apr-July	22	17.0
UPPER COLORADO					
Lake Powell Inflow	7800.0	112	Apr-July	--	6952.0

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	
		Average	
COAL CREEK	3	--	242
VIRGIN RIVER	3	580	252
PAROWAN CREEK	4	432	176
ENTERPRISE - NEW HARMONY	2	--	338
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 15 years e - Maximum mean daily peak flow + - 1963-77 15 year Average Period			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year		
			Last Year	Average †	
COLORADO	Lake Powell	25002.0	22545.0	20120.0	--
	Blue Mesa	829.5	608.6	340.0	--

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	
	Average †	
Coal Creek nr Cedar City	To Begin February 1st	
Virgin nr Virgin		

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Birch Crossing	12/28	28	6.1	0.7	3.2 ^b
Brian Head	12/30	52	14.9	--	8.8 ^b
Harris Flat	12/30	29	8.0	2.3	3.0
Kolob-Crystal	12/30	60	18.0	3.2	8.3 ^a
Little Grassy	12/30	6	2.0	--	0.8 ^a
Long Flat	12/30	28	7.8	0.1	2.1 ^a

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Long Valley Junction	12/30	28	8.1	1.3	1.5
SUSC Ranch	12/28	36	9.2	0.2	3.4 ^b
Tall Poles	12/28	46	11.2	3.3	6.0 ^b
Webster Flat	12/30	50	15.2	--	6.6
Yankee Reservoir	12/30	30	6.8	--	4.1 ^a

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Federal Bldg. - Room 4012
Salt Lake City, Utah 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE
AGR-101



FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
GREAT BASIN											
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	12/29	14	1.7	--	--	12/29	--	--	5.02	--	--
CCC Camp	12/29	27	5.0	6.4	--						
Hayden Fork	12/29	23	5.0	11.3*	6.4 ^a	12/29	--	--	5.63	--	--
Monte Cristo R.S.	12/28	41	11.0	18.2	9.6 ^a	12/28	--	--	11.70	11.07 ^b	106
Salt River Summit	12/29	32	6.4	9.8	5.9	12/29	3.18	--	--	7.17	
Stillwater Camp	12/29	21	3.5	--	--	12/29	--	--	6.48	--	--
Lily Lake	12/29	28	5.8	8.5	--	12/29	--	--	6.84	--	--
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	12/28	31	7.2	15.1	7.7 ^a	12/28	--	--	6.66	--	--
Cub River R.S.	12/27	19	5.0	--	3.4 ^a						
Emigrant Summit	1/3	45	13.5	12.8	9.4 ^b						
Franklin Basin	12/27	39	10.7	18.5	9.9 ^a	1/1	5.10 ^a	--	13.50 ^a	--	--
Garden City Summit	12/27	29	7.5	--	6.9	12/27	--	--	9.25	8.06	115
Klondike Narrows	12/27	34	8.2	--	7.1	12/27	--	--	10.79	9.92 ^b	109
Little Bear (lower)	12/28	28	6.2	--	4.8 ^a	--	--	--	--	--	--
Little Bear (upper)	12/28	37	7.0	--	5.8 ^a	12/28	2.57	--	15.30	--	--
Slug Creek Divide	12/29	29	7.4	10.6	7.5 ^b						
Steep Hollow #1	12/27	61	17.0	--	13.6 ^b						
Steep Hollow #2	12/27	46	12.1	--	9.1 ^b						
Tony Grove Lake	12/27	55	15.4	22.1	12.5 ^a						
Tony Grove R.S.	12/27	25	5.7	--	4.1	12/27	--	--	8.53	8.24 ^b	104
Willow Flat	12/27	31	7.7	--	5.9 ^a	12/27	--	--	14.53	14.14 ^b	103
OGDEN RIVER											
Beaver Creek-Skunk Creek	12/28	27	6.5	--	4.4						
Ben Lomond Peak	12/28	71	21.8	20.5	12.4						
Ben Lomond Trail	12/28	42	12.2	12.1	5.4 ^a						
Causey Dam	12/28	--	--	--	--	12/28	--	--	6.77	6.62 ^b	102
Dry Bread Pond	12/28	34	9.1	11.3	6.9 ^a	1/1	3.20 ^a	--	9.30 ^a	--	--
Sagebrush Flat	12/28	15	3.1	--	1.9	12/28	--	--	5.11	--	--
WEBER RIVER											
Beaver Creek R. S.	12/29	19	3.9	--	3.6						
Chalk Creek #1	12/29	44	11.0	--	9.3 ^a	1/1	3.50 ^a	--	11.80 ^a	--	--
Chalk Creek #2	12/29	34	7.0	8.9	6.6 ^a	1/1	2.30 ^a	--	7.80 ^a	--	--
Chalk Creek #3	12/29	20	3.6	--	3.6 ^a	12/29	--	--	7.61	6.76 ^a	113
Farmington Canyon (lower)	12/28	46	12.6	--	9.3 ^b						
Farmington Canyon (upper)	12/28	57	17.3	18.4	12.9 ^b	12/28	8.00 ^a	--	17.06 ^a	--	--
Farmington G.S.						12/28	Vandalized				
Horse Ridge	12/28	37	9.7	--	7.9 ^a	1/1	4.20 ^a	--	12.70 ^a	--	--
Kilfoil Creek	12/28	33	7.5	--	--						
Lost Creek Reservoir	12/28	12	2.6	--	--						
Parley's Canyon Summit	12/28	40	8.7	10.7	7.9	12/28	5.54	--	10.73	10.49	102
Redden Mine (lower)	12/29	36	9.2	--	--	12/29	--	--	10/43	--	--
Smith & Morehouse	12/29	27	7.0	6.9	5.2	12/29	--	--	8.46	8.35	--
Hardscrabble	12/28	38	10.2	--	--						
Pine Canyon	12/28	32	9.6	--	--						
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	12/29	23	5.1	6.5	6.2 ^a	1/1	2.60 ^a	--	8.60 ^a	--	--
Camp Altamont	12/29	42	12.9	3.9	6.5						
Clear Creek Ridge #1	12/27	37	8.5	10.3	7.2 ^a	1/1	3.60 ^a	--	12.00 ^a	--	--
Clear Creek Ridge #2	12/27	34	6.8	9.3	5.8 ^a	12/27	--	--	10.21	7.31 ^b	--
Clear Creek Ridge #3	12/27	21	4.1	--	3.1 ^a						
Dutchman R.S.	12/29	47	13.7	6.2	7.2 ^a	12/29	--	--	14.65	--	--
Hobble Creek Summit	12/27	35	8.1	--	5.8 ^a	12/27	--	--	12.10	--	--
Payson R.S.	12/31	42	12.4	9.0	8.0	12/31	Frozen	--	--	8.74	--
Soapstone R.S.	12/29	22	4.0	--	5.3						
South Fork R.S.	12/28	24	7.8	4.0	2.6						
Timpanogos Cave Camp	12/28	7	2.0	2.0	1.2						
Timpanogos Divide	12/29	55	16.0	5.4	10.8	12/29	7.80	--	18.95	--	--
Trial Lake	12/29	40	10.8	16.0	10.3	12/29	--	--	13.94	11.49	121

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)						
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME												
JORDAN RIVER & GREAT SALT LAKE												
Bevan's Cabin	Not Scheduled											
Lamb's Canyon #2	12/28	39	8.9	8.7	7.8 ^b	12/28	--	--	8.42	9.72 ^b	--	
Middle Canyon	12/31	38	9.5	5.5	6.1 ^b							
Mill Creek	12/29	40	9.4	11.1	8.1 ^b							
Mill D South Fork	12/29	44	11.5	11.9	8.2							
Rocky Basin-Settlement	1/1	92 ^a	23.0 ^a	--	--	1/1	6.20 ^a	4.98	16.0 ^a	12.67	126	
Silver Lake (Brighton)	12/29	53	14.8	15.4	10.3	--	--	--	--	12.71	--	
Vernon Creek	12/31	35	8.8	3.6	3.7 ^b							
COLORADO RIVER DRAINAGE												
UPPER GREEN RIVER - UTAH												
Black's Fork G.S.-East Fork	12/29	16	2.7	--	3.4 ^b	12/29	--	--	5.98	--	--	
Black's Fork Junction	12/29	18	2.7	--	3.3 ^b							
Burnt Creek	12/29	21	4.1	1.4	1.7 ^a	12/29	2.86	--	6.26	4.49 ^b	139	
Grizzly Ridge	12/29	35	9.2	2.4	4.7 ^a	12/29	5.60	--	11.60	6.31 ^b	184	
Hewinta G.S.	12/29	18	2.9	--	3.4 ^b	12/29	--	--	6.38	--	--	
Hickerson Park	12/30	24	2.7	--	1.9 ^b							
King's Cabin (upper)	12/30	35	8.9	5.0	5.0 ^a	12/30	--	--	9.05	--	--	
Spirit Lake	12/30	33	5.4	--	4.9 ^b	12/30	--	--	9.67	--	--	
Steel Creek Park	12/29	36	7.7	11.4	6.3 ^a	12/29	--	--	5.58	--	--	
Trout Creek	12/30	37	10.2	--	--	12/30	--	--	9.90	--	--	
DUCHESNE RIVER												
Atwood Lake (A)	1/4	34	9.0	--	--							
Brown Duck Ridge	12/30	50	14.3	12.2	7.5 ^a	12/30	--	--	10.66	--	--	
Chepeta	12/30	38	9.9	6.6	--	12/30	2.30 ^a	--	9.30 ^a	--	--	
Currant Creek	12/27	27	6.5	4.6	4.0 ^a	12/27	--	--	8.28	--	--	
Daniels-Strawberry Summit	12/27	34	9.8	9.2	5.6	12/27	--	--	10.54	8.44	125	
East Portal	12/30	34	6.9	7.8	4.5	12/30	1.86	--	9.60	7.80	123	
Five Points Lake (A)	1/4	40	11.2	--	--							
Indian Canyon	12/27	40	9.8	5.0	5.2	12/27	--	--	--	6.28	--	
Jackson Park	12/30	42	11.4	--	7.7 ^a	12/30	--	--	10.02	--	--	
Lakefork Basin (A)	1/4	44	11.9	--	--							
Lakefork Mountain #1	12/30	35	8.5	5.4	5.8 ^a	12/30	--	--	8.96	--	--	
Lakefork Mountain #3	12/30	24	5.7	--	3.2 ^a							
Lightning Lake (A)	1/4	51 ^a	13.7 ^a	15.3	--							
Mosby Mountain	12/30	33	8.9	6.3	4.2	12/30	--	--	10.22	6.59 ^b	155	
Paradise Park	12/30	43	12.4	--	5.4	--	--	--	--	8.26	--	
Rock Creek Ranch	12/30	26	5.9	4.5	3.2 ^a	12/30	--	--	7.51	--	--	
Strawberry Divide	12/30	39	9.5	10.4	7.8	1/1	3.30 ^a	--	12.70 ^a	--	--	
PRICE RIVER												
Dry Valley Divide Alternate	12/27	28	6.2	--	4.5 ^a							
Mud Creek	12/28	32	6.9	--	5.7							
White River #1	12/27	32	8.0	--	5.4 ^a	12/27	--	--	8.43	6.50	130	
White River #3	12/27	22	4.1	--	3.4 ^a							
SAN RAFAEL RIVER												
Buck Flat	12/29	42	12.1	6.3	6.1 ^a	1/1	4.40 ^a	--	11.50 ^a	6.30	182	
Huntington-Horseshoe	12/28	54	16.8	--	8.8 ^a							
Orange Olsen	12/28	22	4.0	--	1.1 ^a							
Red Pine Ridge	12/28	43	11.0	11.7	5.6 ^a	12/28	2.70 ^a	--	12.10 ^a	--	--	
Seeley Creek R.S.	12/28	36	11.0	8.9	6.2 ^a	1/1	2.10 ^a	--	6.80 ^a	--	--	
Stuart R.S.	12/28	23	5.2	--	2.2 ^a	12/28	--	--	5.58	--	--	
Upper Joe's Valley	12/28	31	6.4	--	3.4 ^a							
Wrigley Creek	12/29	30	7.3	--	3.5 ^a							
MUDDY RIVER												
Black's Fork	12/29	31	7.8	--	5.1 ^a							
Dill's Camp	12/29	29	7.0	7.3	4.6 ^a	1/1	3.80 ^a	--	9.80 ^a	--	--	

SNOW

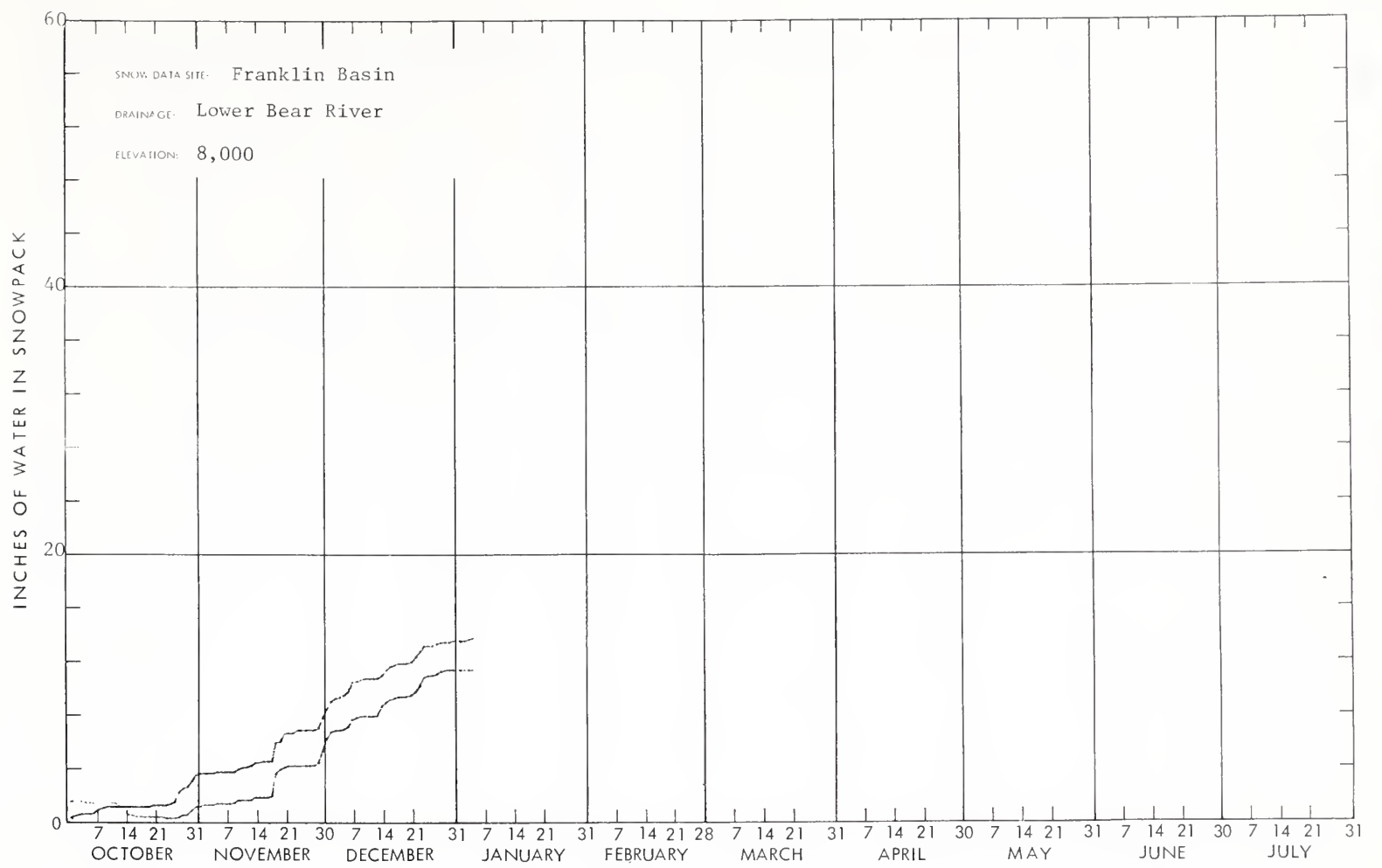
PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
FREMONT RIVER											
Black's Flat-U.M. Creek	12/29	28	6.5	7.3	4.3 ^a	12/29	--	--	5.55	--	--
Fish Lake	12/29	25	5.7	--	3.0 ^a	12/29	--	--	--	5.02 ^b	--
Johnson Valley	12/29	24	5.0	--	2.4 ^a						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	12/29	37	10.4	1.9	5.4 ^a	12/29	--	--	12.30	--	--
Camp Jackson	12/29	41	12.5	2.0	5.1 ^a	12/29	--	--	13.10	--	--
LaSal Mountain (lower)	12/30	32	7.6	2.2	3.6 ^a						
LaSal Mountain (upper)	12/30	49	13.7	5.3	5.5 ^a	12/30	--	--	12.15	--	--
Monticello City Park	1/3	6	2.3	--	--						
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	12/29	36	8.9	7.0	5.1 ^a						
Bryce Canyon	12/30	23	5.1	2.6	2.1						
Castle Valley	12/30	40	11.4	4.7	6.0 ^a	12/30	--	--	10.85	--	--
Duck Creek R.S.	12/30	43	12.1	4.3	5.2	12/30	--	--	17.43	8.03	217
Harris Flat	12/30	29	8.0	2.3	3.0	1/1	3.00 ^a	--	9.30 ^a	--	--
Kimberly Mine	12/31	38	9.8	5.1	6.2	12/30	Frozen	--	--	8.07	--
Midway Valley	12/30	64	20.4	--	8.5	1/1	5.60 ^a	--	19.00 ^a	--	--
Panguitch Lake	12/30	23	6.3	0.70	2.2 ^a	12/30	--	--	7.50	--	--
Squaw Springs	12/29	26	6.1	--	2.9 ^a						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	12/29	25	5.7	5.2	4.2 ^b	12/29	--	--	8.45	5.84 ^b	145
Farnsworth Lake	12/29	44	10.1	10.2	8.0	12/29	--	--	10.20 ^a	8.55	119
G.B.R.C. Headquarters	12/28	39	8.2	--	6.8	12/28	--	--	10.37	8.54	121
G.B.R.C. Majors						--	1.70	--	7.10	4.23 ^b	168
G.B.R.C. Meadows	12/28	51	15.1	--	9.0 ^b	12/28	--	--	9.90	10.14	98
G.B.R.C. Oaks						--	2.10	--	6.90	5.80	119
Gooseberry R.S.	12/29	30	6.0	5.6	5.3	12/29	--	--	7.65	--	--
Mammoth-Cottonwood Creek	12/28	51	13.7	10.6	7.9	1/1	3.50 ^a	--	10.50 ^a	--	--
Mt. Baldy R.S.	12/29	51	14.5	--	9.2 ^b	12/29	--	--	8.17	7.97 ^b	103
Oak Creek	12/31	40	10.0	--	--	12/31	--	--	6.67	--	--
Pickle Keg Springs	12/29	37	8.6	8.0	6.4 ^a	1/1	4.30 ^a	--	12.50 ^a	--	--
Pine Creek	12/31	50	14.7	--	7.0 ^a	12/31	--	--	12.78	--	--
Ree's Flat	12/31	40	10.3	--	--	12/31	--	--	10.25	--	--
Shingle Mill	1/4	23	6.1	--	4.5 ^b	1/4	3.09	--	10.43	7.80 ^b	134
Gooseberry Reservoir						12/28	--	--	12.19	--	--
BEAVER RIVER											
Beaver Canyon Power House						--	--	--	--	3.39	--
Beaver Race Track	1/4	6	1.2	--	--						
Big Flat	12/31	46	13.0	9.6	5.9 ^a	12/31	--	--	9.37	6.97 ^b	134
Merchant's Valley (upper)	12/31	39	9.8	6.5	4.8 ^a	12/31	--	--	10.85	6.16 ^b	176
Otter Lake	12/31	36	9.7	--	4.5 ^a						
PAROWAN CREEK											
Birch Crossing	12/28	28	6.1	0.70	3.2 ^b						
Brian Head	12/30	52	14.9	--	8.8 ^b						
Tall Poles	12/28	46	11.2	3.3	6.0 ^b	12/28	--	--	9.60	7.28 ^b	132
Yankee Reservoir	12/30	30	6.8	--	4.1 ^a	12/30	--	--	8.45	--	--
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	12/30	6	2.0	--	0.8 ^a	12/30	--	--	9.73	--	--
Long Flat	12/30	28	7.8	0.1	2.1 ^a	12/30	--	9.30 ^a	8.90 ^a	--	--
COAL CREEK											
Cedar City Golf Course	12/28	0	0.0	0.0	--						
SUSC Ranch	12/28	36	9.2	0.2	3.4 ^b						

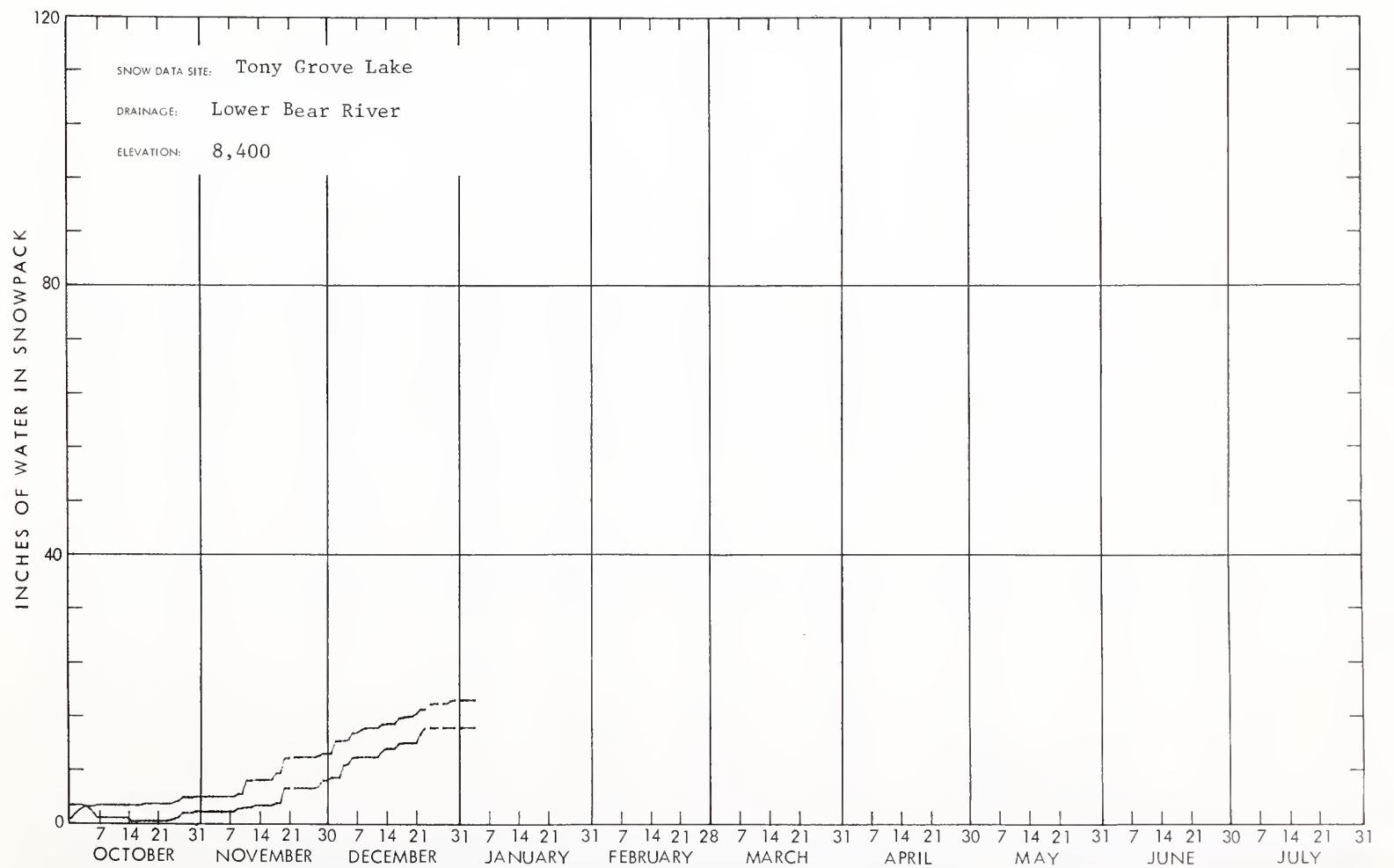
SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
				Last Year	Average +						
ESCALANTE RIVER											
Widtsoe-Escalante #3	12/29	31	7.3	5.1	4.5	12/29	--	--	5.23	6.01	87
VIRGIN RIVER											
Kolob-Crystal	12/30	60	18.0	3.2	8.3 ^a	--	5.90 ^a	--	17.50 ^a	--	--
Long Valley Junction	12/30	28	8.1	1.3	1.5						
Webster Flat	12/30	50	15.2	--	6.6	1/1	4.60 ^a	--	13.30 ^a	8.14	163
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading											



WSFB-K13D

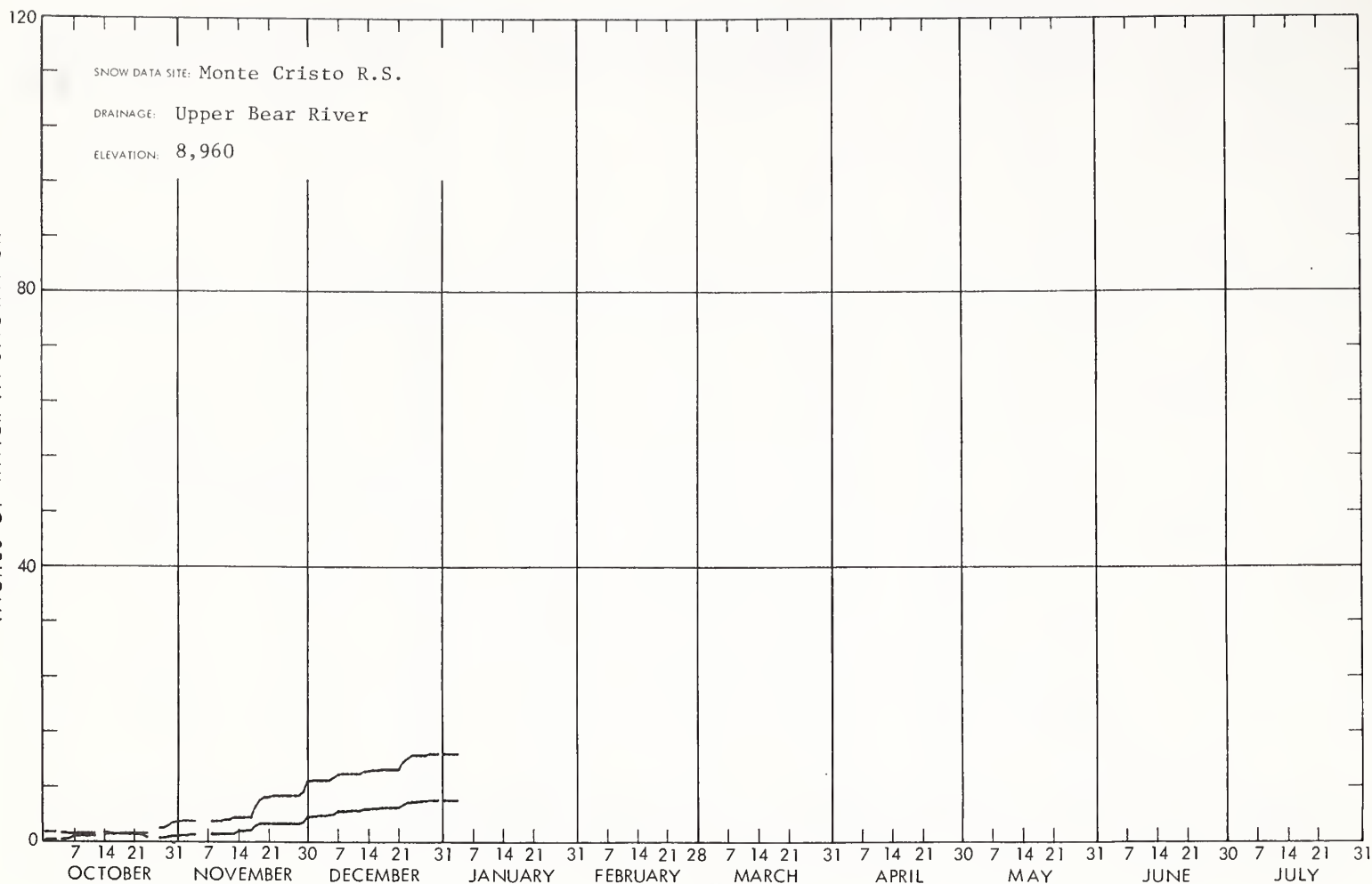


SN

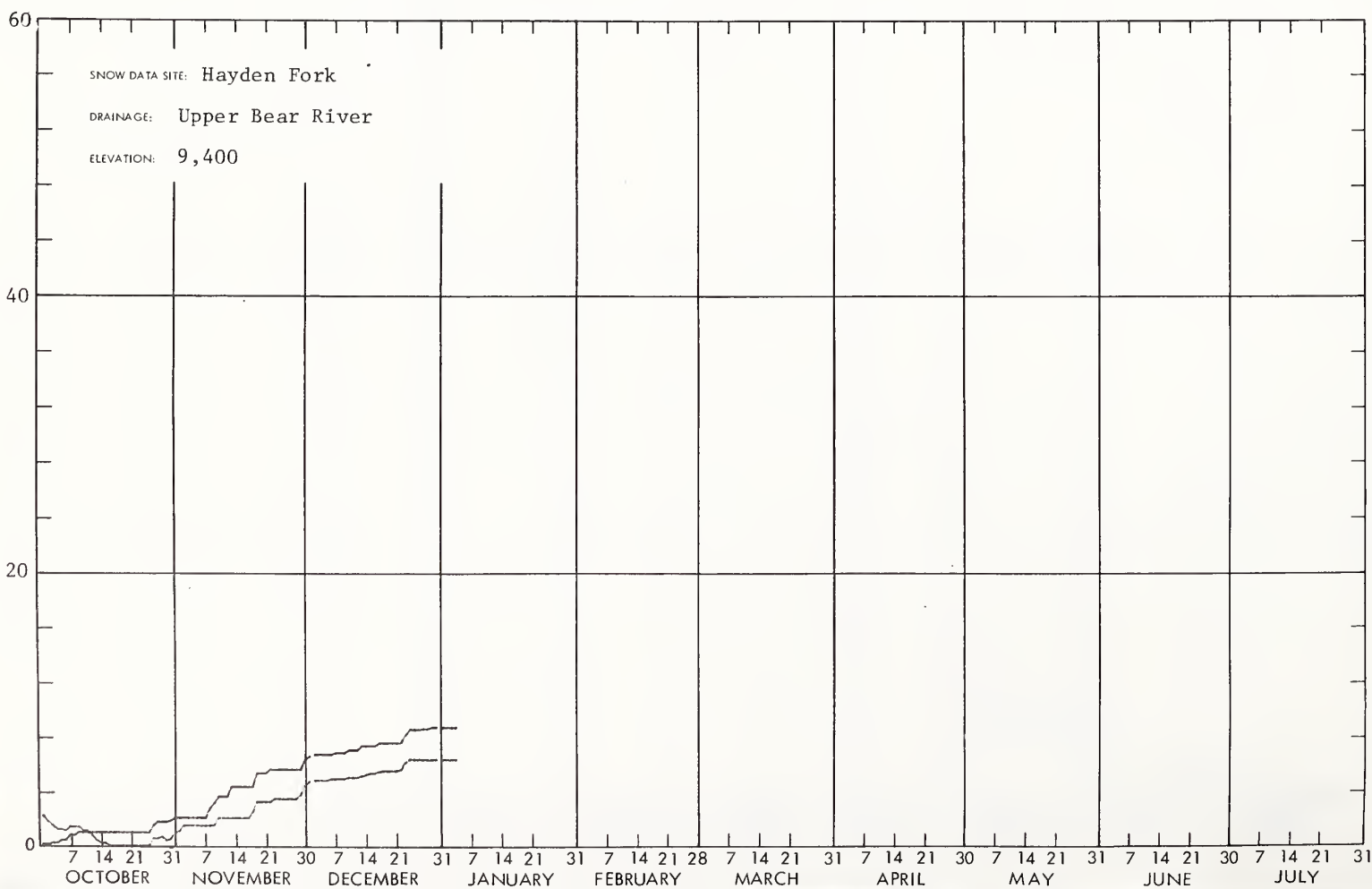
E

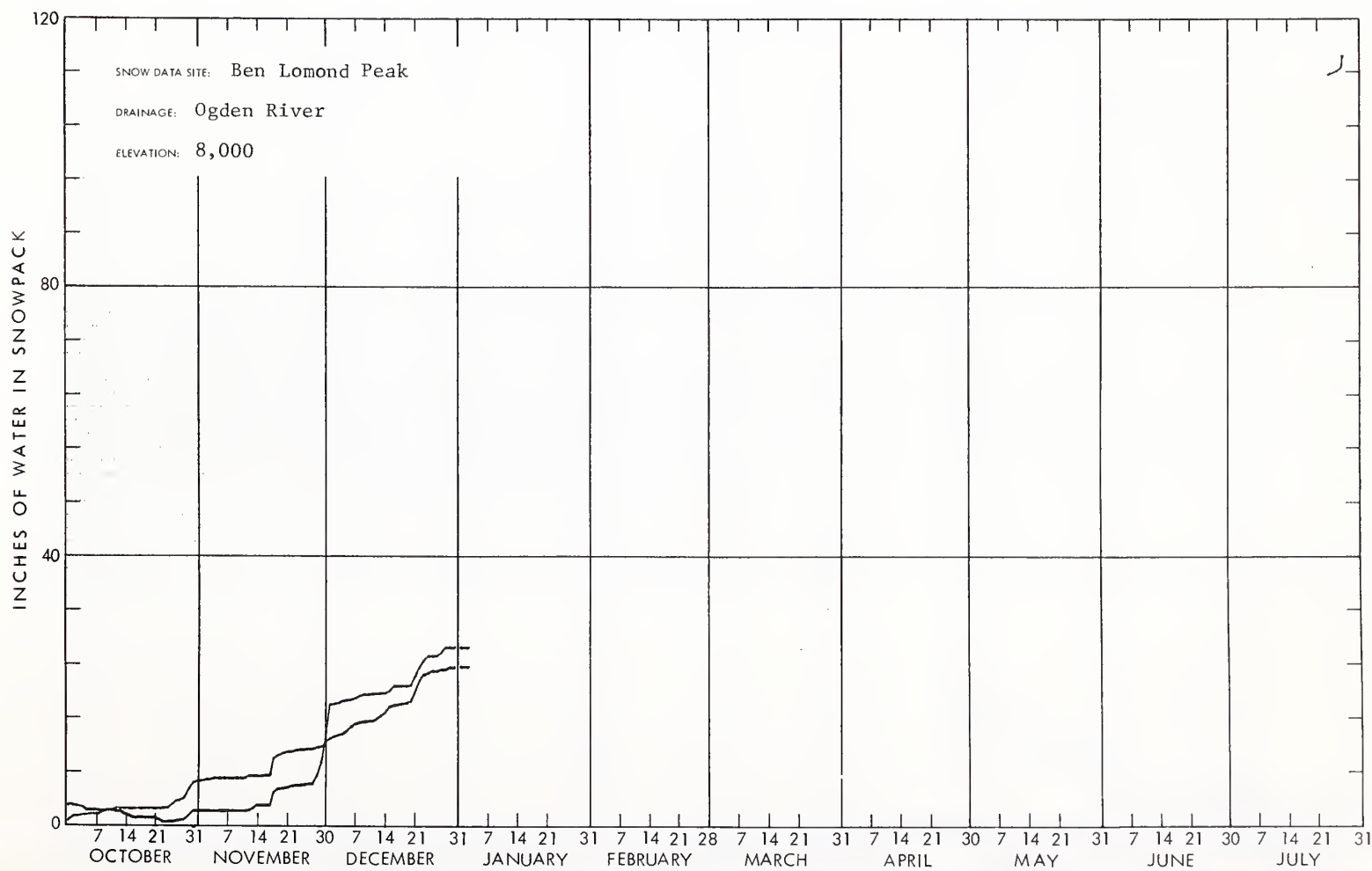
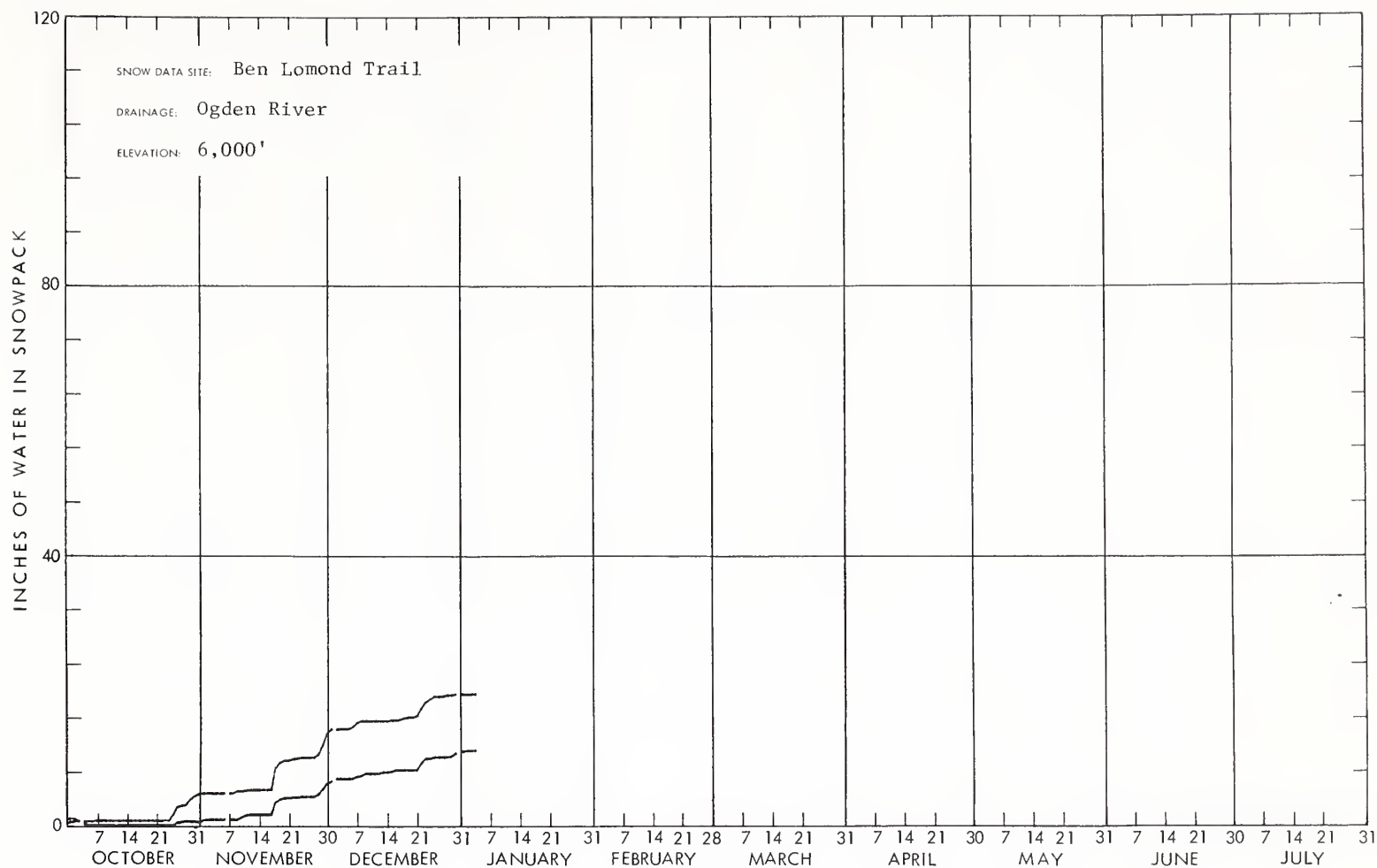
V

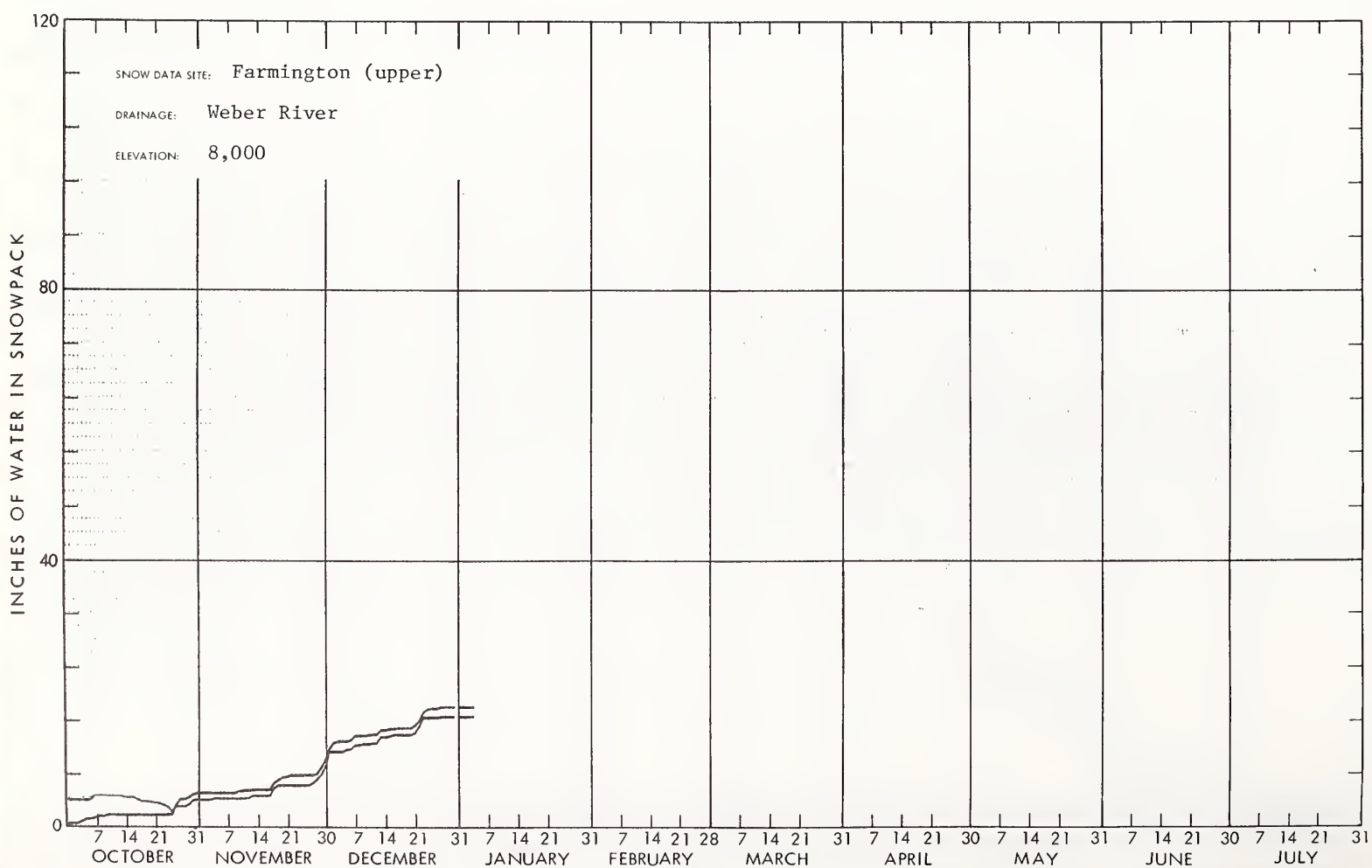
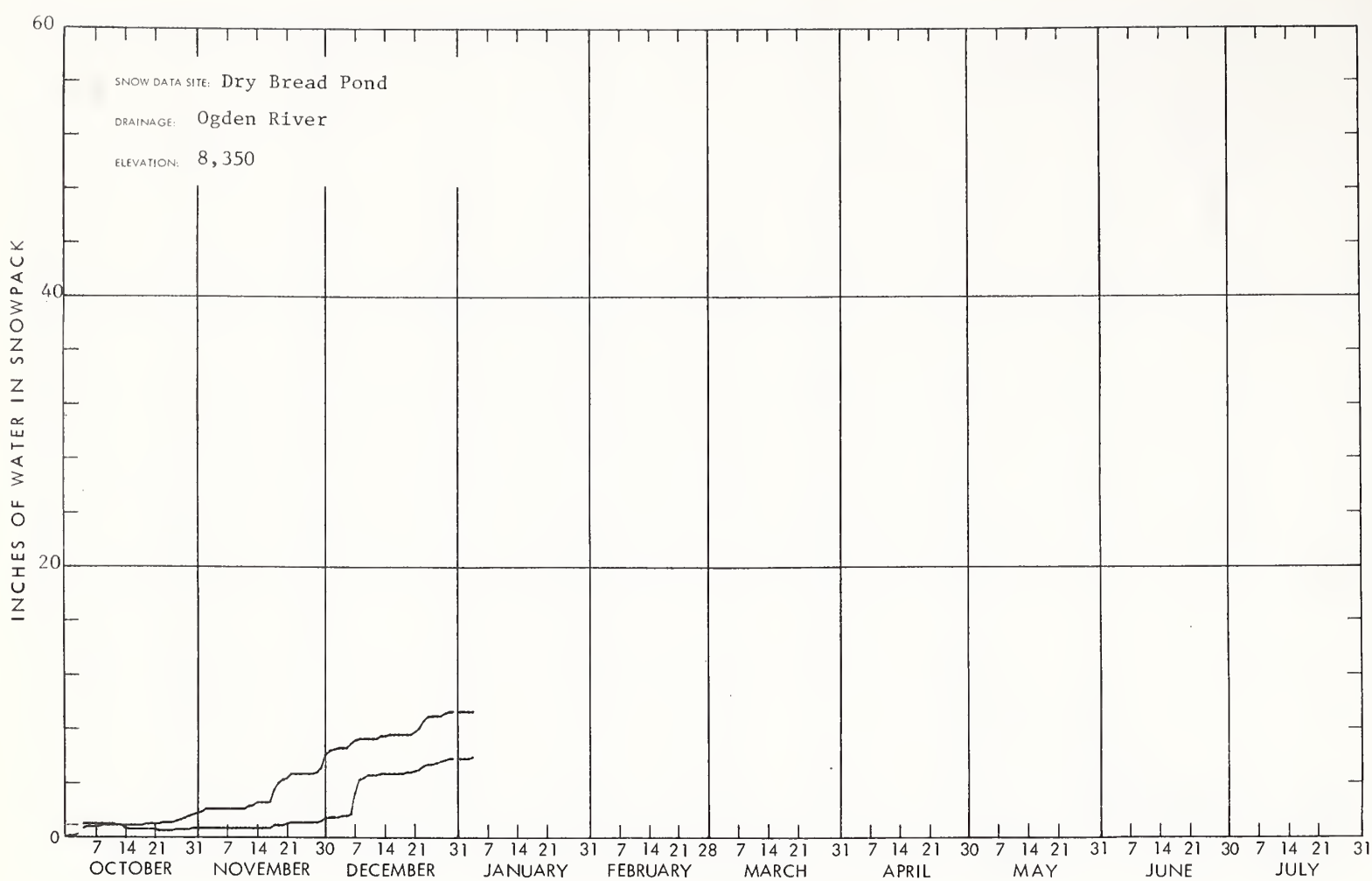
INCHES OF WATER IN SNOWPACK

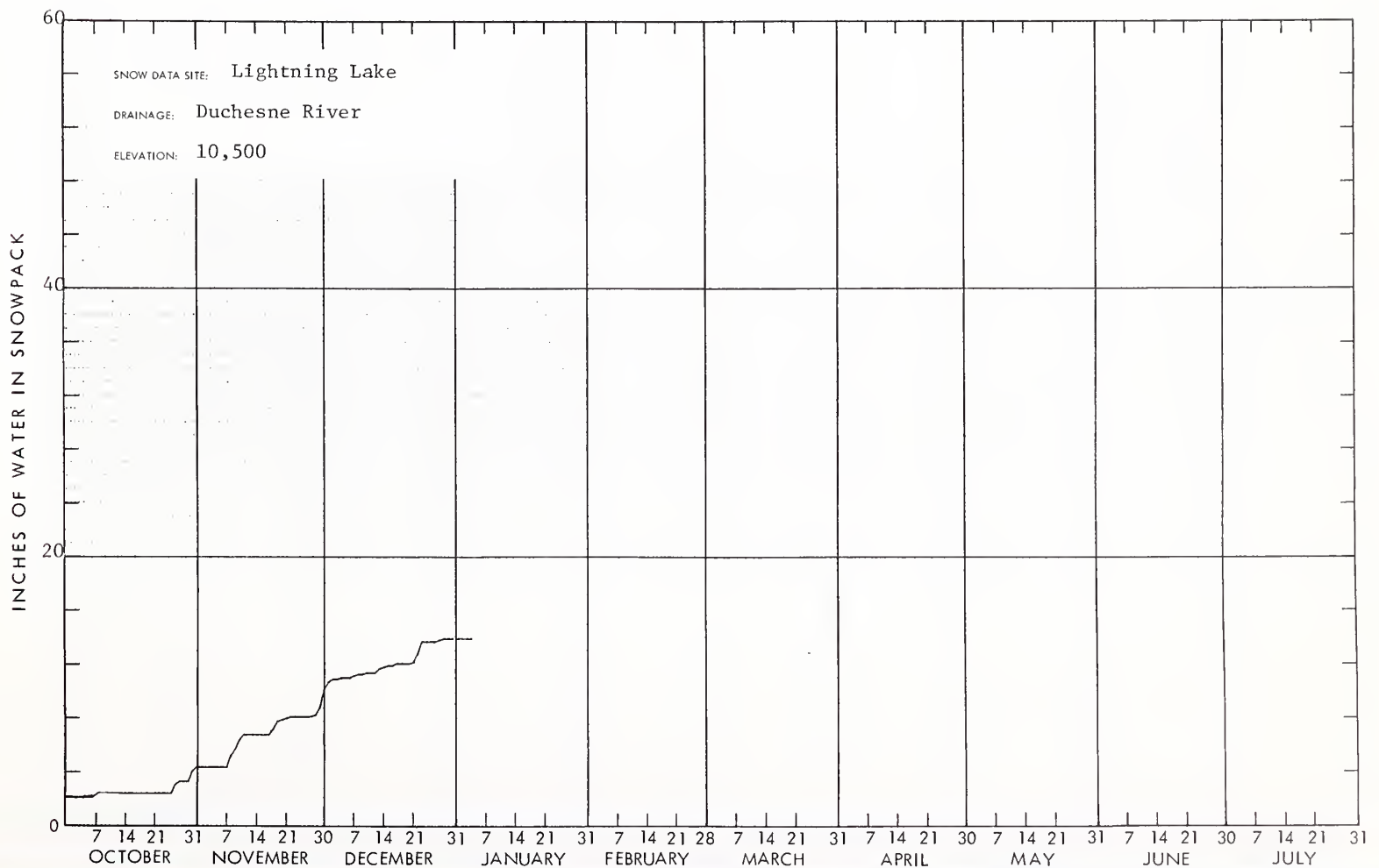
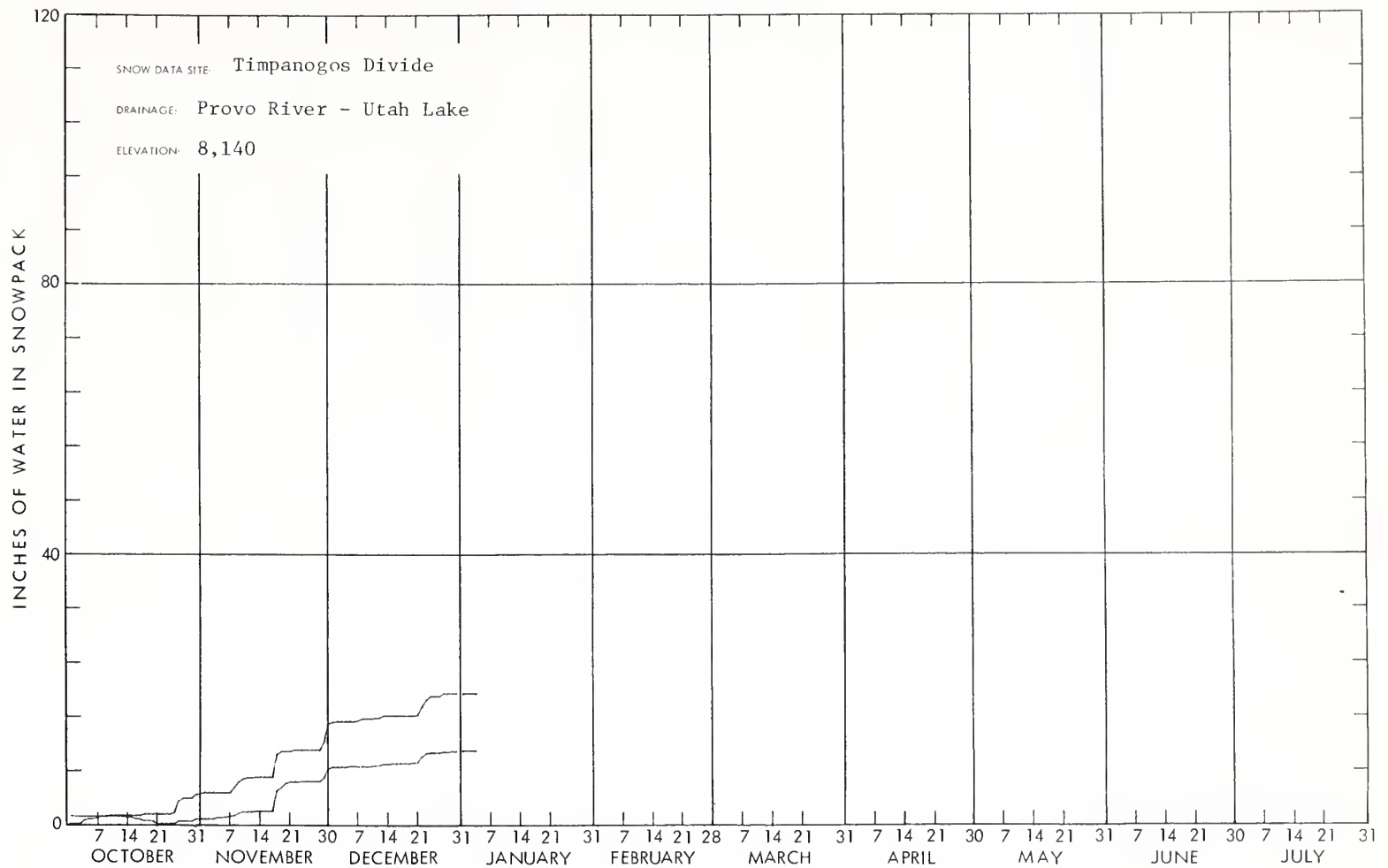


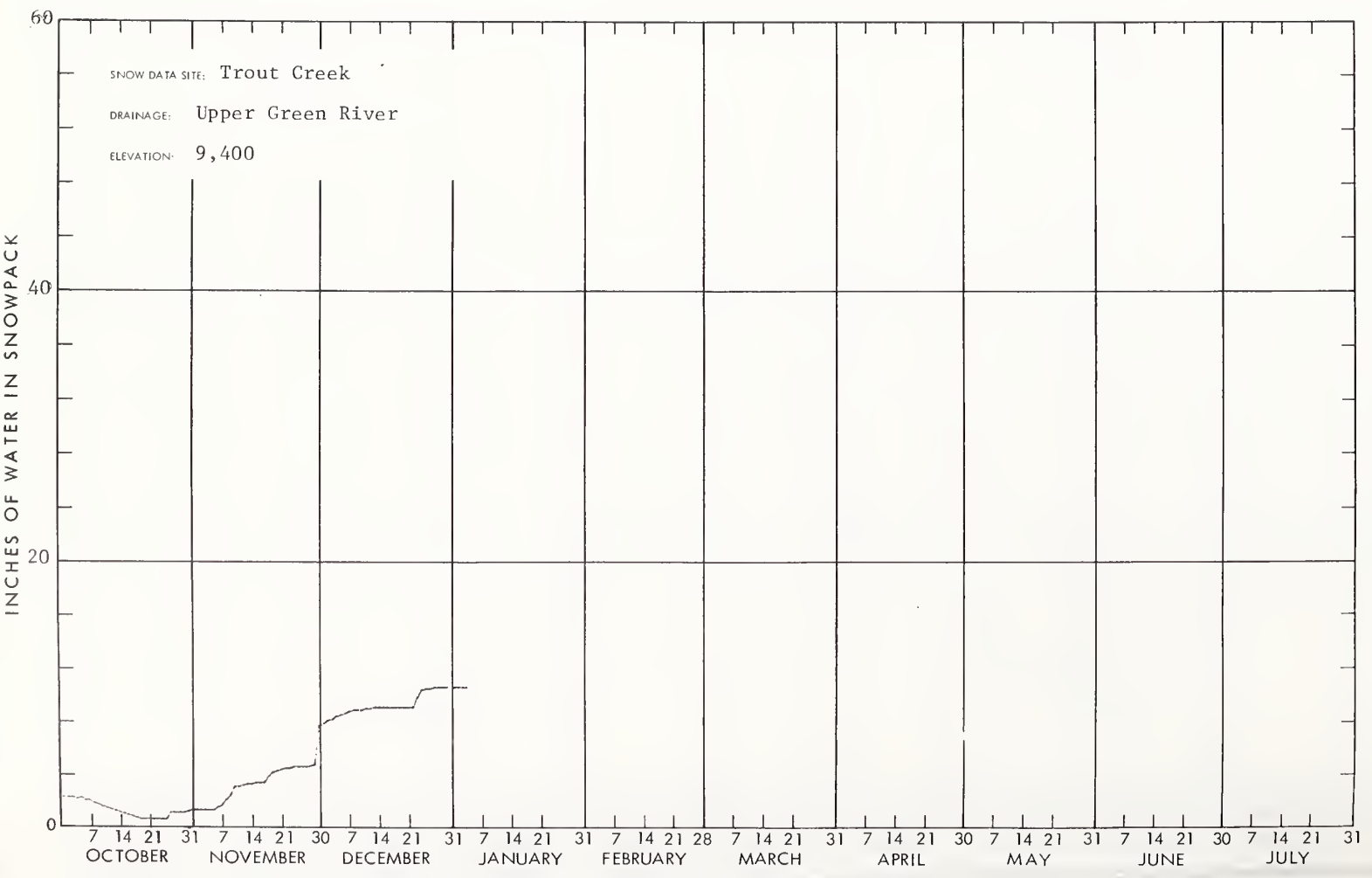
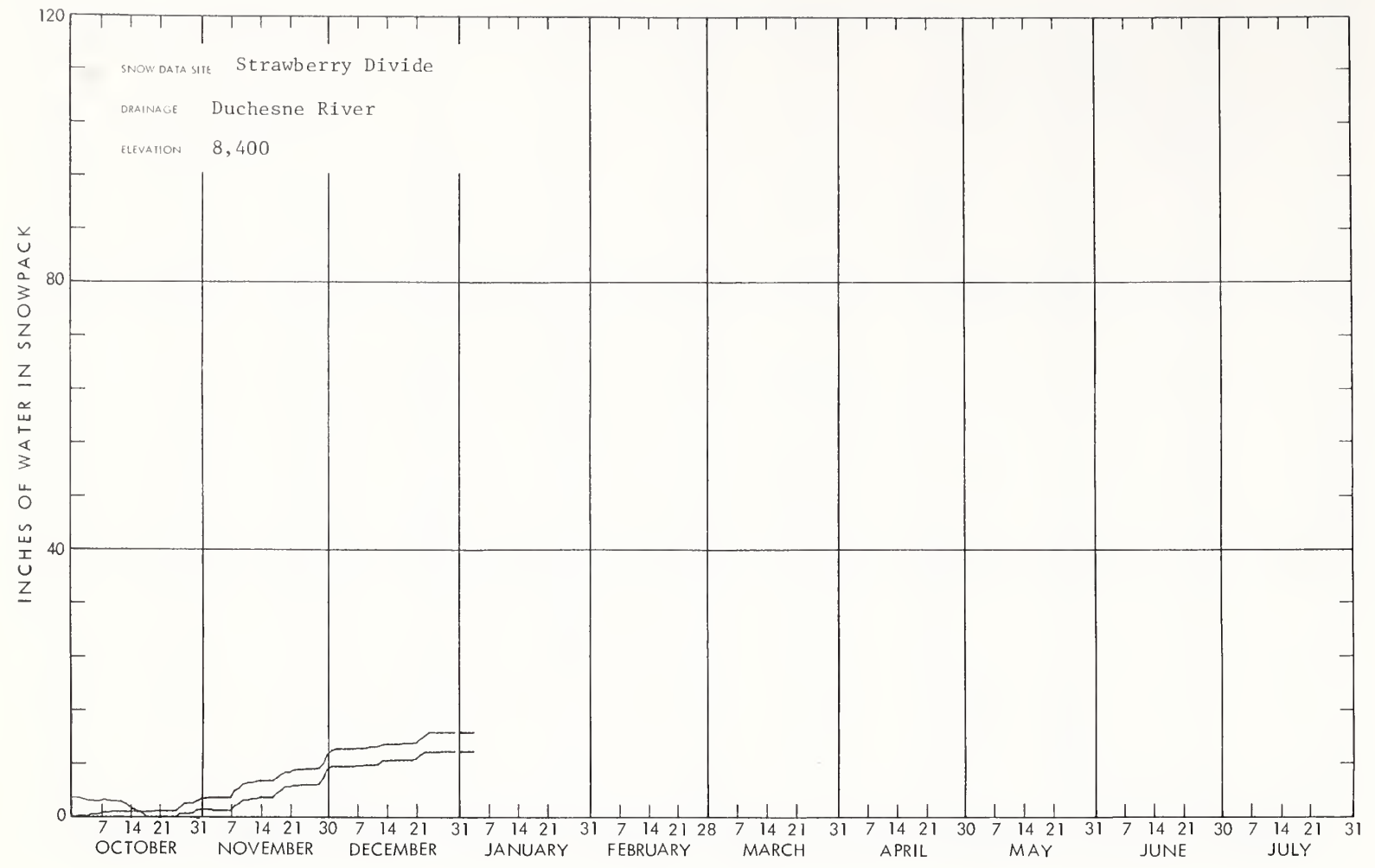
INCHES OF WATER IN SNOWPACK

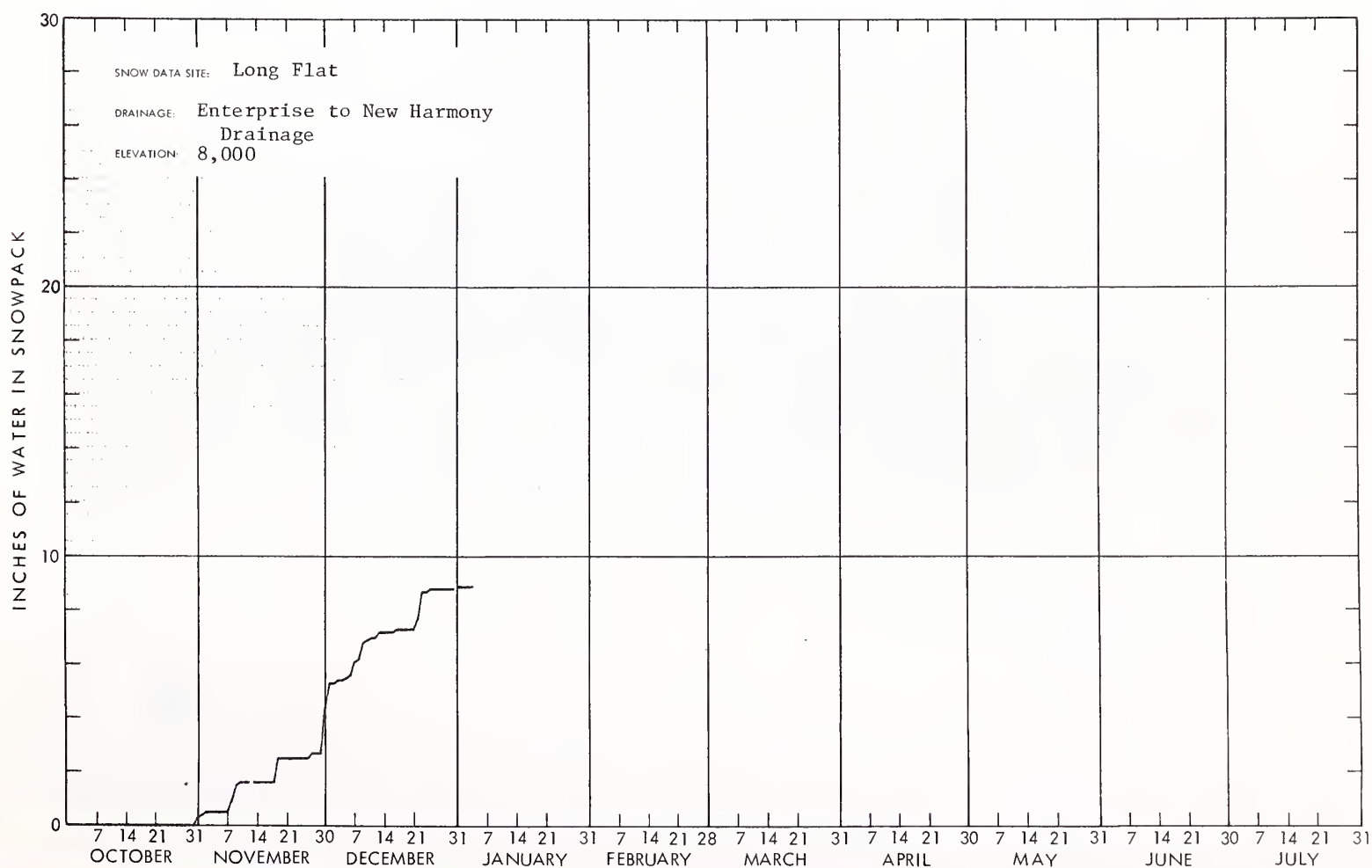
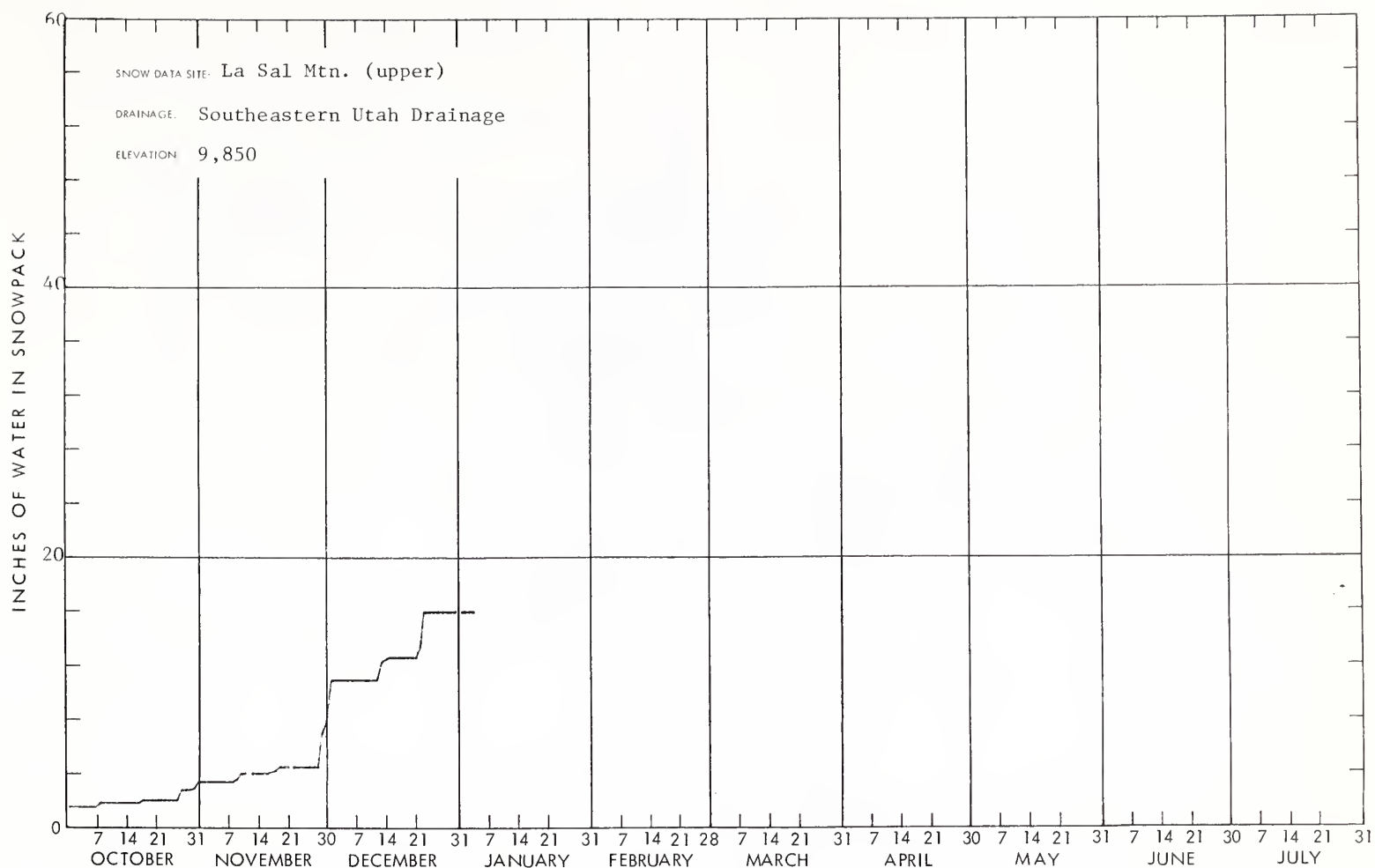


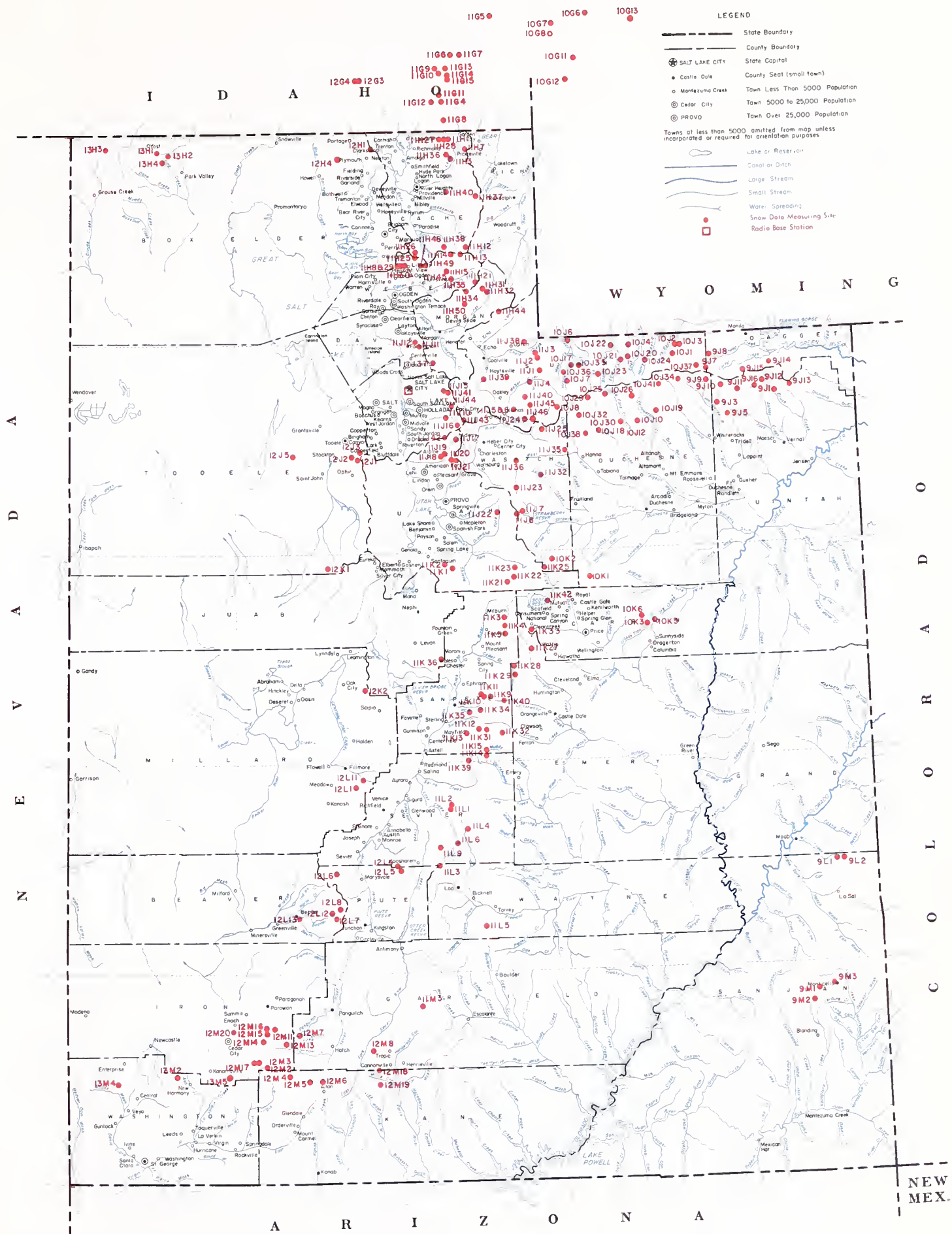












INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO.	STATE	NAME	SEC	TWP	RGE	ELEV.	NO.	STATE	NAME	SEC	TWP	RGE	ELEV.
UPPER BEAR RIVER (above Harer, Idaho)													
10G11	W	Big Park	7	27N	117W	8,700	11J25P	U	Sagehen R.S.	9	3S	8E	7,800
10A6P	W	Burt's-Miller Ranch	19	3N	10E	7,900	11J19	U	South Fork R.S.	24	4S	2E	6,100
10G7	W	CCC Camp x	9	29N	118W	7,500	11J18	U	Timpanogos Cove Camp	27	4S	2E	5,500
10J36P	U	Gold Hill	15	1N	9E	10,000	11J21PST	U	Timpanogos Divide	33	4S	3E	8,140
10J75PST	U	Hayden Fork	25	1N	9E	9,400	10J8PST	U	Trial Lake	5	2S	9E	9,960
10G12	W	Kelly Ranger Station	13	26N	118W	8,200							
10J35P	W	Lily Lake	34	2N	10E	9,050							
11H21PST	U	Monte Cristo R. S.	4	8N	114E	8,960							
10G6	W	Poison Meadows x	29	30N	116W	8,000							
10G6	W	Salt River Summit x	22	30N	116W	8,000							
10J39P	W	Shiloh Basin	15	29N	115W	8,400							
10J17P	U	Shiloh Camp	32	2N	10E	8,550							
LOWER BEAR RIVER (below Harer, Idaho)													
11H37PST	U	Big Lake	18	11N	5E	7,950	12J2	U	Bevan's Cabin	24	4S	4W	6,450
11G11	U	Christensen Ranch	27	13S	41E	5,400	12J5P	U	Deseret Peak	15	4S	7W	9,250
11H38P	U	Cinnaman Creek	5	8N	3E	7,300	11J41P	U	Lamb's Canyon #2	21	1S	3E	7,500
12H1P	U	Clarkston Mountain	29	14N	2W	6,300	12J3P	U	Middle Canyon	8	4S	3W	7,000
11G12	I	Cub River Ranger Station	5	15S	41E	5,400	11J44	U	Mill Creek	25	1S	2E	6,950
12G4	I	Dry Basin	30	13S	42E	7,900	11J10	U	Mill D South Fork	18	2S	3E	7,400
11G6	I	Dry Creek Flat	31	13S	37E	7,350	11J10	U	Rocky Basin-Settlement Canyon	35	3W	3E	8,000
11G7	I	Emigrant Summit	21	12S	42E	6,500	12J1P	U	Silver Lake (Brighton)	30	3S	3E	8,725
11H40P	U	Franklin Basin	24	12S	42E	6,500	11J16P	U	Snow Bird (Gard Valley)	18	3S	3E	9,700
11H7MP	U	Gardiner City Summit	34 & 35	14N	4E	7,200	11J42	U	Vernon Creek	21	10S	5W	7,500
11G14a	U	Herd Hollow #1	3	11N	3E	7,200	12K1PST	U					
11G15a	U	Horseshoe Basin	31	13S	42E	8,000							
11H15P	U	Klamlike Narrows	10	14N	3E	7,400							
11G13	U	Liberty Narrows	7	13S	42E	8,240							
11H26	U	Little Bear (lower)	16	8N	1E	6,000							
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550							
12G3	I	Oxford Mountain	32	13S	37E	6,800							
11G5	I	Slug Creek Divide	15	10S	44E	7,225							
11H27	U	Steep Hollow #1	9	14N	3E	8,500							
11H28	U	Steep Hollow #2	7	14N	3E	7,700							
11G9	I	Strawberry Creek	9	13S	41E	5,800							
11H36P	U	Strawberry Milk Divide	14	13N	4E	5,800							
11H37PST	U	Tony Grove Lake	5	13N	3E	8,400							
11H3MP	U	Tony Grove Ranger Station	11	13N	3E	8,400							
11G4P	I	Willow Flat	2	15S	41E	6,100							
RAFT RIVER													
3H2a	U	Clear Creek Meadows	26	14N	14W	9,050							
3H4P5	U	George Peak	4	13N	14W	9,000							
3H1	U	One Mile Summit	17	14N	14W	7,350							
3H3a	U	Vipont	17	14N	17W	7,670							
OGDEN RIVER													
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150							
11H8PST	U	Ben Leonard Peak	3	7N	1W	6,000							
11H30PST	U	Ben Leonard Trail	2	7N	1W	6,000							
11H35P	U	Causey Dam	34	7N	3E	5,500							
11H34PST	U	Dry Bread Pond	19	8N	4E	8,350							
11H34P	U	Guilder's Peak	21	6N	4E	8,050							
11H45p	U	Middle Park Ogden	16	7N	2E	8,420							
11H49	U	Powder Mountain Hideaway	6	7N	2E	8,250							
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400							
11H15P	U	Sagebrush Flat	21	7N	3E	6,500							
WEBER RIVER													
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500							
11J1PST	U	Chalk Creek #1	4	2N	8E	7,100							
11J2MPST	U	Chalk Creek #2	29	2N	8E	7,500							
11J36P	U	East Shettle Lake	7	2S	8E	9,750							
11J12P	U	Farmington Canyon (lower)	15	3N	1E	6,950							
11J11PST	U	Farmington Canyon (upper)	23	3N	1E	8,000							
11H44P	U	Francis Canyon	29	5N	6E	7,400							
11J37P	U	Hardscrabble	22	2N	2E	6,700							
11H21PST	U	Horse Ridge	25	7N	4E	8,260							
11H31	U	Killoft Creek	20	6N	5E	7,300							
11H32P	U	Laft Creek	27	6N	5E	7,300							
11J43P	U	Park City Summit	30	5S	2E	6,700							
11J43PST	U	Piney's Canyon Summit	30	5S	3E	7,500							
11H39P	U	Porcupine	6	5N	4E	8,000							
11J38P	U	Redden Mine (lower)	22	3N	7E	8,100							
11J6	U	Redden Mine (upper)	1	2S	6E	8,500							
11J5P	U	Sergeant Lakes	1	2S	6E	9,000							
11J39pa	U	Shingle Mill Flat	9	1N	6E	8,300							
11J40p	U	Smith & Morhouse	22	1S	7E	9,040							
11J4PST	U		25	1N	7E	7,600							
PROVO RIVER & UTAH LAKE													
11J46PST	U	Beaver Creek Divide	25	2S	7E	8,280	9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500
11J20PST	U	Camp Altononi	29	4S	3E	6,300	10J21P	U	Black's Fork G.S. -East Fork	25	2N	12E	9,300
11H22PST	U	Clear Creek Ridge #1	19	11S	6E	8,000	10J22P	U	Black's Fork Junction	33	3N	12E	8,925
11K23P	U	Clear Creek Ridge #2	18	11S	6E	8,000	10J23a	U	Buck Pasture	2	1N	20E	7,900
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600	10J19P	U	Burnt Creek	8	1N	20E	7,900
11J17P	U	Dutchman R.S.	27	10S	6E	6,600	10J20P	U	Grizzly Ridge	29	1N	22E	8,500
11J22P	U	Hobble Creek Summit	27	7S	5E	7,560	10J4P	U	Hart's Fork	33	2N	14E	10,000
11K1P	U	Payson R.S.	36	4S	3E	7,420	9J8P	U	Hickerson Park	13	3N	13E	9,500
11K1P	U	Payson R.S.	30	10S	3E	8,050	9J15p	U	Highline Trail	24	1N	19E	10,250
11K2	U	Rock Bridge	14	10S	2E	6,750	10J3	U	Hole-in-the-Rock	32	3N	16E	8,300
PROVO RIVER & UTAH LAKE (continued)													
11J25P	U	Sagehen R.S.	9	3S	8E	7,800	9J1PST	U	King's Cabin (upper)	22	1S	21E	8,780
11J19	U	South Fork R.S.	24	4S	2E	6,100	10J37P	U	McCoy Park	6	1N	17E	10,650
11J18	U	Timpanogos Cove Camp	27	4S	2E	5,500	10J2	U	Middle Beaver Creek	31	3N	16E	8,680
11J21PST	U	Timpanogos Divide	33	4S	3E	8,140	9J10aP	U	Reynolds Park	9	1S	18E	10,400
10J8PST	U	Trial Lake	5	2S	9E	9,960	9J7P	U	Spirit Lake	10	1N	17E	10,300
JORDAN RIVER & GREAT SALT LAKE													
12J2	U	Bevan's Cabin	24	4S	4W	6,450	10J20PST	U	Steel Creek Park	17	2N	13E	10,100
12J5P	U	Deseret Peak	15	4S	7W	9,250	9J16PST	U	Trout Creek	9	1S	20E	7,400
12J3P	U	Lamb's Canyon #2	21	1S	3E	7,500	9J12ap	U	Windy Park	2	1S	20E	9,400
11J41P	U	Middle Canyon	8	4S	3W	7,000							
11J44	U	Mill Creek	25	1S	2E	6,950							
11J10	U	Mill D South Fork	18	2S	3E	7,400							
12J1P	U	Rocky Basin-Settlement Canyon	35	3W	3E	8,000							
11J16P	U	Silver Lake (Brighton)	30	3S	3E	8,725							
11J42	U	Snow Bird (Gard Valley)	18	3S	3E	9,700							
12K1PST	U	Vernon Creek	21	10S	5W	7,500							
UPPER SEVIER RIVER (South of Richfield, Utah)													
12L4PST	U	Box Creek	33	26S	2W	9,300	10J34P	U	Jackson Park	25	3N	3W	11,000
12M8	U	Byrce Canyon	16	36S	4W	9,000	10J25ap	U	Kidney Lake	28	5N	3W	11,000
12M9	U	Chalk Valley	21	36S	4W	9,000	10J25up	U	Lakefork Basin	13	4N	7W	11,100
12M4P	U	Dry Valley	21	38S	8W	8,700	10J12	U	Lakefork Mountain #3	2	4N	7W	10,200
12M4P	U	Dry Valley	21	38S	8W	8,700	10J12	U	Lakefork Mountain #3	2	4N	7W	10,200
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S	4W	8,200	9J12P	U	Lightning Lake	20	2N	4W	8,400
12M18	U	Farview	32	37S									

COLORADO RIVER DRAINAGE

UPPER GREEN RIVER IN UTAH (above Duchesne River)													
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500	11M3PST	U	Widhee-Escalante #3	22	34S	1W	9,500
10J21P	U	Black's Fork G.S. -East Fork	25	2N	12E	9,300							
10J22P	U	Black's Fork Junction	33	3N	12E	8,925							
10J23a	U	Buck Pasture	2	1N	20E	7,900							
10J19P	U	Burnt Creek	8	1N	20E	7,900							
10J20P	U	Grizzly Ridge	29	1N	22E	8,500							
10J4P	U	Hart's Fork	33	2N	14E	10,000							
9J8P	U	Hickerson Park	13	3N	13E	9,500							
9J15p	U	Highline Trail	24	1N	19E	10,250							
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150							
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300							

LEGEND
Numbering System (example)
10J7F Snow Course Only
10J7M Snow Course and Soil Moisture Station
10J7MA Snow Course, Soil Moisture Station and Aerial Marker
10J7MP Snow Course, Soil Moisture Station and Precipitation Gage
10J7P Snow Course, Soil Moisture Station and Precipitation Gage
10

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture
 - Soil Conservation Service
 - Forest Service
- U. S. Department of Commerce
 - NOAA, National Weather Service
- U. S. Department of Interior
 - Bureau of Reclamation
 - Geological Survey
 - National Park Service

STATE AGENCIES

- Utah State University
- Utah State Department of Natural Resources
 - Division of Wildlife Resources
 - Division of Water Resources
 - Division of Water Rights
 - Bear River Commissioner
 - Price River Commissioner
 - Provo River Commissioner
 - Sevier River Commissioners
 - Spanish Fork River Commissioner
 - Utah Lake and Jordan River Commissioner

MUNICIPALITIES

- Manti
- Salt Lake City

ORGANIZED PUBLIC AGENCIES

- Beaver River Water Users Association
- Board of Canal Presidents - Jordan River
- Central Utah Conservancy District
- Emery Canal and Reservoir Company
- Moon Lake Water Users Association
- Ogden River Water Users Association
- Provo River Water Users Association
- Strawberry Water Users Association
- Sevier River Water Users Association
- Weber River Water Users Association
- Weber Basin Conservancy District

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
FEDERAL BLDG., - ROOM 4012
125 SOUTH STATE ST.
SALT LAKE CITY, UTAH 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

FIRST - CLASS MAIL
POSTAGE AND FEES PAID
USDA - SCS
SALT LAKE CITY, UTAH
PERMIT NO. G -267

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*